

# **SOUTHWEST TEXAS STATE UNIVERSITY**

## **Undergraduate Catalog**

**1998-2000**

**Eighty-Eighth Edition**

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Southwest Texas State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, Telephone number 404-679-4501) to award bachelor's, master's and doctor's degrees.

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Each semester's class schedule is available at registration in printed form. Additional academic information is available from the office of the Vice President for Academic Affairs, the offices of the school deans, and academic departmental offices.

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# OFFICIAL UNIVERSITY CALENDAR

## Fall 1998

April 9-24, Thu-Fri .....	Registration
July 6, Mon .....	Registration Bills Mailed
July 31, Fri .....	Registration Payment Deadline
August 17-25, Mon-Tue .....	Registration (\$10 Fee Returning Students)
August 18, Tue .....	Westwood On-Site Registration
August 18-19, Tue-Wed .....	New Student Orientations/Registration
August 17-25, Mon-Tue .....	Schedule Changes
August 17-25, Mon-Tue .....	Payment Period
August 24-25, Mon-Tue .....	Financial Aid Payment Days
August 25, Tue .....	Last Day to Pay
August 25, Tue .....	Cancel Non-Paid
August 26, Wed .....	Classes Begin
August 26-28-, Wed-Fri .....	Schedule Changes
August 28, Fri .....	Registration (\$50 Late Fee)
September 7, Mon .....	Labor Day
September 11, Fri .....	Last day to drop with 100% Refund
September 11, Fri .....	12th Class Day
September 15, Tue .....	Last day to drop with "W" grade
Sep 11- Nov 25, Wed-Wed .....	Period to drop with "W" or "F" grade
October 2, Fri .....	2nd Installments Due
September 25, Fri .....	Graduation Application Deadline
October 14, Wed .....	Mid-Term
October 19, Mon .....	Mid-Term Grades Available by Phone
November 6, Fri .....	3rd Installments Due
November 25, Wed .....	Last Day to Drop a Class
November 25, Wed .....	Last Day to Withdraw
November 25-29, Wed-Sun .....	Thanksgiving Vacation
December 7, Mon .....	Last Class Day
December 8, Tue .....	Classes Do Not Meet
December 9-15, Wed-Tue .....	Final Exams
December 18, Fri .....	Grades Available by Phone
December 18, Fri .....	Graduate Commencement
December 19, Sat .....	Undergraduate Commencement
January 5, Tue .....	Requested Grades Mailed

## Spring 1999

Oct 16-Nov 4, Fri-Wed.....	Registration
November 10, Tues.....	Registration Bills Mailed
December 7, Mon .....	Registration Payment Deadline
January 5-15, Tue-Fri .....	Registration (\$10 Fee Returning Students)
January 6, Wed .....	Westwood On-Site Registration
January 5-15, Tue-Fri .....	Schedule Changes
January 5-15, Tue-Fri .....	Payment Period
January 11-12, Mon-Tue .....	New Student Orientations/Registration
January 13-15, Wed-Fri.....	Financial Aid Payment Days
January 15, Fri .....	Last Day to Pay
January 15, Fri .....	Cancel Non-Paid
January 19, Tue.....	Classes Begin
January 19-21, Tue-Thu.....	Schedule Changes
January 21, Thu .....	Registration (\$50 Late Fee)
February 3, Wed .....	Last day to drop with 100% Refund
February 3, Wed .....	12th Class Day
February 5, Fri .....	Last day to drop with "W" grade
Feb 6-Apr 22, Sat-Thu.....	Period to drop with "W" or "F" grade
February 19, Fri .....	2nd Installments Due
February 12, Fri .....	Graduation Application Deadline
March 10, Wed.....	Mid-Term
March 12, Fri.....	Mid-Term Grades Available by Phone
March 14-21, Sun-Sun .....	Spring Break
April 2, Fri .....	3rd Installments Due
April 22, Thu .....	Last Day to Drop a Class
April 22, Thu .....	Last Day to Withdraw
May 3, Mon .....	Last Class Day
May 4, Tue.....	Classes Do Not Meet
May 5-11, Wed-Tue.....	Final Exams
May 14, Fri .....	Grades Available by Phone
May 15, Sat.....	Commencement
May 31, Mon .....	Requested Grades Mailed

The Official University Calendar for Fall 1999 and Spring/Summer 2000 will be printed in the 1998-2000 Catalog Addendum and the Summer/Fall 1999 and Spring 2000 Class Schedules.

Calendar is subject to change. See Class Schedule for any updates.

# **SOUTHWEST TEXAS STATE UNIVERSITY**

## **History**

Authorized by the Texas Legislature in 1899, Southwest Texas State Normal School opened its doors in 1903. Over the years, the Legislature broadened the institution's scope and changed its name, in succession, to Normal College, Teachers College, College, and in 1969, University. Each name reflects the university's growth from a small teacher preparation institution to a major, multipurpose university.

SWT's original mission was to prepare Texas public school teachers, especially those of the south central area. It became renowned for carrying out this mission, but today it does far more. Besides educating teachers in its School of Education, the university offers programs in Schools of Applied Arts and Technology, Business, Fine Arts and Communication, Health Professions, Liberal Arts, and Science. In 1986, the College of General Studies was created to assure a broad general education for all students, regardless of major.

As the university's student population has grown—from 330 in 1903 to over 21,000 in 1990 - the campus, too, has expanded, and today SWT is the seventh largest public university in the state. Overlooking the campus and serving as a landmark since 1903 is Old Main, a red-gabled Victorian building restored to its original grandeur. In 1979, after adding a number of classroom buildings and residence halls, the university purchased the former San Marcos Baptist Academy adjacent to the original campus. Recently completed is a new library, conveniently in the center of the campus. SWT is located in San Marcos, a Hill Country community about halfway between Austin and San Antonio. Its location on the banks of the San Marcos River provides recreational and leisure activities for students throughout the year.

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

## **University Mission\***

Southwest Texas State University's mission is to provide effective teaching supported by research for the advancement of knowledge and service to the community. SWT is a comprehensive public university committed to providing an intellectually stimulating and socially diverse climate for its graduate and undergraduate students, faculty, and staff. At SWT, we believe the primary purpose of higher education is to promote learning and stimulate inquiry in an atmosphere of freedom.

## **Statement of Purpose**

Southwest Texas State University is a comprehensive institution of higher education offering undergraduate and masters level instruction as well as doctoral programs in geography, dedicated to effective teaching, the advancement of knowledge and artistic expression, and to service as a resource for the surrounding region. The university believes that all students should develop broad knowledge upon which to build specialties, the ability to marshal their thoughts, and the skill to express their thoughts effectively in oral and written form. To meet these general goals, Southwest Texas State University commits itself as follows:

1. To provide undergraduate students with a broad base of communal knowledge, derived from a clearly defined sequence of courses in the freshman and sophomore years designed to build college-level competencies, complemented by specialized courses of study selected from a comprehensive range of undergraduate programs.
2. To provide graduate students the opportunity to enhance their knowledge in a variety of specialized programs through research, creative expression, or advanced study.
3. To contribute to the greater body of knowledge in specific disciplines through research, scholarship, and creative expression.
4. To serve as a professional, educational, and cultural resource to the local area and the larger community by providing consultation, advice, and special services.
5. To provide a well-qualified faculty through effective recruiting practices, dedication to diversity and equal opportunity, careful assessment of teaching effectiveness, institutional support for research activity and artistic expression, clear standards for academic advancement, and opportunities for professional development, while fostering an environment that protects academic freedom in inquiry and expression.
6. To attract an outstanding, ethnically diverse student body by presenting high standards for admission, by implementing creative strategies for recruiting and retaining a heterogeneous and qualified student body, and by maintaining adequate programs to counsel students academically and otherwise, assess academic progress, and evaluate student performance, while providing social and professional development by offering a full range of effective student services.
7. To create an environment for learning and professional development by providing appropriate physical facilities, equipment, and educational support services for students, faculty, and staff.

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\*At the time of publication, the University Mission was undergoing its periodic review with final action by the Texas Higher Education Coordinating Board scheduled for October 1998. The current University Mission Statement may be found at <http://www.swt.edu> (etc.).

## **Statement of Core Values**

### **Philosophy**

We, the faculty, staff, and students at SWT, affirm that our university exists to enrich our minds and to humanize our hearts so that we might contribute to the betterment of humanity. We are dedicated to providing a curriculum and educational experience that develop our capacities not only to analyze critically and think creatively, but also to reason ethically and feel compassionately.

To guide us as we learn to evaluate the consequences of our actions-not to indoctrinate either intellectually, morally, or religiously-we articulate the following:

### **Core Values**

#### **The lifelong pursuit of academic excellence.**

We value the seeking of knowledge, including the freedom to engage in meaningful debate and the responsibility to continually explore new possibilities for learning.

#### **The nurturing of individuals.**

We value the opportunity to develop the potential of every individual of our diverse community.

#### **The cultivation of character.**

We value the modelling and teaching of honesty, integrity, diligence, courage, compassion, fairness, and respect.

### **A Continuing Process**

We see the articulation of this statement as ongoing. Its publication should serve to keep dialogue continually alive; and it should be formally reviewed every two years to decide whether publication should be renewed and, if so, in what form.

## **Students' Rights, Privileges, and Expectations**

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

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

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

## **Multicultural Policy Statement**

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

## **Student Identification by Social Security Number**

From time to time the university requires that its students and applicants for admission furnish their social security numbers. The university uses these social security numbers to verify identities. Disclosure of these social security numbers is mandatory. The university's record-keeping system was established prior to January 1, 1975, pursuant to the authority given the Board of Regents, Texas State University System, in Section 95.21 of the Texas Education Code. These numbers are also solicited under the statutory authority of 42 U.S.C.A. Section 405 (c) (2) (C).



## **Office of Disability Services**

Southwest Texas State University does not discriminate on the basis of disability in the recruitment and admission of students to the university. Students with disabilities must meet the same admission requirements as other students. A student whose educational and/or personal goals for success have been negatively impacted due to disability-based reasons may wish to submit a supplemental essay with their admission application. This information may be considered by the admission office during the application review process.

The Office of Disability Services (ODS) at SWT assists students with disabilities to independently achieve their educational goals and enhance their leadership development by providing reasonable and appropriate accommodations. ODS facilitates access to university programs, services and activities in the most integrated setting appropriate. In order to qualify for services, a student must provide ODS with verification of disability. Students with learning disabilities must provide an evaluation which has been completed within the last five years. To ensure a timely review of documentation and provision of support services, students are requested to provide verification of disability at least thirty days prior to attendance at the university. Students needing sign language or oral interpreting services for admissions counseling, academic advising and orientation services should contact ODS one week prior to the event to ensure interpreter availability.

Students with disabilities may be entitled to financial assistance from the Texas Commission for the Blind, Texas Commission for the Deaf or the Texas Rehabilitation Commission.

The university has established a grievance procedure for the prompt and equitable resolution of complaints related to illegal discrimination on the basis of disability. This grievance procedure is described in UPPS No. 04.04.46, Illegal Discrimination. A copy is available in the university library, the Office of Disability Services and most other university offices. Students who have concerns or complaints should contact the Director of Disability Services at (512) 245-3451 (voice/TTY) or the university ADA Coordinator at (512) 245-2278 (voice/TTY).

For more information on services for students with disabilities at Southwest Texas State University call (512) 245-3451 (voice/TTY) or write 601 University Drive, Suite 5.5.1 LBJ Student Center, San Marcos, TX 78666.

## **Albert B. Alkek Library**

The Alkek Library contains more than 1.1 million volumes of books, documents, serials and other printed material. In addition, there are over 207,000 volume equivalents in microform and 22,000 AV titles, which includes over 1,200 software programs for the public microcomputer lab. The library receives 5,400 periodical and serial titles.

An on-line catalog which can also be accessed from off-campus provides information on the library's holdings. Other automated resources include CD ROM indexes and a variety of electronic databases. Internet access is provided.

The library maintains cooperative borrowing agreements with other libraries in the region. In addition, through TexShare, a state-wide resource sharing program, faculty and students may borrow materials at most of the public and private university libraries as well as community college libraries in the state.

Library support facilities include a networked microcomputer lab with 60 MacIntosh or IBM compatible workstations. Lab equipment also includes laser printers, scanners and video editing equipment. A variety of software programs are available to assist disabled individuals.

More information about the library is available at any of the service points in the building or through the Alkek Library's web page found at: <http://www.library.swt.edu>.



# **ADMISSION, RESIDENCE LIFE, FINANCIAL AID, CAREER SERVICES**

## **Admission**

- Deadlines for Admission
- Undergraduate Admission Programs
- Special Admission Options
- Transfer Credit
- Non-Traditional Credit
- Campus Visits
- New Student Orientation and Registration for Classes
- Residency for Tuition

## **Residence Life**

- University Housing Policy
- Applying to Live on Campus
- Cancellation Deadlines

## **Financial Aid**

- Federal and State Aid Programs
- Applying for Financial Aid
- Requirements for Maintaining Financial Aid
- Other Financial Assistance

## **Career Services**

- Career Planning
- Part-time/Summer Employment
- Internships/Mentoring/Job Shadowing
- Job Search Assistance
- Other Career Assistance

## ADMISSION

Southwest Texas State University welcomes applications for admission. The admission application can be obtained by contacting the admission office. An electronic version of the application can be accessed through the University's web site at the "admissions" home page location.

Office of Admission	Phone: (512) 245-2364
Southwest Texas State University	Fax: (512) 245-8044
429 N. Guadalupe Street	E-mail: <a href="mailto:admissions@swt.edu">admissions@swt.edu</a>
San Marcos, Texas 78666-5709	Web: <a href="http://www.swt.edu">http://www.swt.edu</a>

### Deadlines for Admission

Students should apply for admission as early as possible. Those still in high school may apply once they have completed six semesters and can provide a preliminary high school transcript showing class rank. Application forms and credentials must be filed by the following deadlines:

Fall Semester .....	July 1
Spring Semester .....	December 1
Summer I .....	May 1
Summer II .....	June 15

Early application for admission and acceptance into the university means priority in residence hall and roommate selection. See housing policy, page 27.

A non-refundable application fee is required with all applications: \$25 for new students; \$10 for former and transient students; \$75 for applicants considered for admission on the basis of foreign credentials.

### Undergraduate Admission Programs

The university has general admission programs for (A) students with no previous college work, (B) students with 1-29 transferable college semester hours, (C) students with 30 or more transferable semester hours, and (D) former SWT students seeking readmission. Southwest Texas will also admit recipients of bona fide scholarships designated by the President of the University.

The university also offers special admission options. These are discussed in the section beginning on page 17.

## PROGRAM A: Students with No Previous College Work

Students who have graduated within the past three years from an accredited high school\* and have attempted no college work must meet the following requirements:

1. Submit an application for admission, application fee and all credentials by the required deadline. High school transcripts must show class rank and SAT or ACT scores. Rank verification may be submitted after the completion of six semesters of high school.
2. Take the SAT I or ACT and have your test results sent directly to SWT (code numbers for SWT - SAT: 6667 and ACT: 4178). Your scores will arrive approximately five weeks after the test. Junior year test scores which meet minimum requirements are acceptable. Test scores documented on official high school transcripts may be submitted.

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\*Graduates of non-accredited high schools must have a minimum ACT of 29 or SAT I of 1270 and an interview with admission personnel to be considered for admission.

3. Satisfy general admission requirements.

H.S. Rank	SAT I*	ACT	
	Tests taken before April 1, 1995	Tests taken April 1, 1995 and after	
Top 10%	No Min.**	No Min.**	No Min.**
1st Qtr.	800	920	20
2nd Qtr.	900	1010	22
3rd Qtr.	1100	1180	26
4th Qtr.	1200	1270	29

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\*The College Board began recentering SAT scores with the April 1995 test administration. The difference between the scores reflects the recentering rather than a change in standards.

\*\*No minimum scores required but scores must be submitted.

4. Take the following high school courses to ensure adequate preparation for college-level work:

### Required Courses

English - 4 years

(college preparatory English courses)

Mathematics - 3 years

(combination of algebra I, algebra II, and geometry, or any mathematics course that requires these as prerequisites)

Science - 3 years

(biology, chemistry, physics preferred; two years must be in laboratory sciences)

Social Studies - 3 years

(world history or world geography - 1 year; U.S. history - 1 year; civics/government - 1 semester; economics - 1 semester)

Foreign Language - 2 years

(two years of same foreign language)

In addition to the courses listed above several other courses are included in a college preparatory curriculum endorsed by the State Board of Education and the Texas Higher Education Coordinating Board. These courses are also recommended for high school students: one additional unit of social studies, a third unit of foreign language, one-half unit of health, one-half unit of fine arts, one and one-half units of physical education, one unit of computer skills, and one-half unit of speech.

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## PROGRAM B: Students with 1-29 Transferable College Semester Hours\*

Students with 1-29 transferable semester hours at the time of application must meet the following requirements:

1. Submit an application for admission, application fee and all credentials by the required deadline.
2. Satisfy general admission requirements explained in Program A, page 15.
3. Submit an official transcript from each postsecondary institution attended. You must be eligible to return (e.g., free of suspension, dismissal or enforced withdrawal) to all previous institutions regardless of GPA or degrees received.
4. Have a cumulative 2.0 GPA in all transferable college work.

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\*See Transfer Credit, page 19.

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## PROGRAM C: Students with 30 or More Transferable College Semester Hours\*

Students with 30 or more transferable semester hours at the time of application must meet the following requirements:

1. Submit an application for admission, application fee and all credentials by the required deadline.
2. Submit an official transcript from each postsecondary institution attended. You must be eligible to return (e.g., free of suspension, dismissal or enforced withdrawal) to all previous institutions regardless of GPA or degrees received.

3. Have a minimum 2.25 GPA in all transferable work attempted. In calculating your GPA, grades of A, B, C, D, and F are computed as recorded. Grades of W or WP are disregarded. Grades of WF or I are averaged as F. If you have repeated a course, all grades except the first will be used. Grades in non-transferable and technical/vocational courses are disregarded. See page 50, Academic Policies, for specific information and policies for repeated grades and courses.

\*See Transfer Credit, page 19.

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## **PROGRAM D: Readmission of Former SWT Students**

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Any SWT student who does not enroll in the university for one long semester or more and wishes to return is considered a former student. Whether the student is forced to leave (academic or disciplinary suspension) or chooses to leave, he or she must follow these procedures for readmission:

1. Submit an application for admission, application fee and all transcripts prior to the late registration period for the semester of desired enrollment.
2. Submit official transcripts from every institution attended since last enrolling at SWT. Former students who have taken 30 or more transferable hours since last enrolling at SWT must have a minimum 2.25 GPA in that work.
3. Attest to the fact that no suspensions, withdrawals, or dismissals affect his or her eligibility to return to all previously attended institutions.

*Note:* A student who leaves SWT due to academic suspension will return on probationary status after complying with the suspension requirements and meeting the readmission criteria outlined above. (See the policy stated in “Readmission Following Suspension” on page 54). Some SWT former students may be eligible for the Academic Bankruptcy Policy (see page 18).

## **Special Admission Options**

**Predicted Academic Success Review.** Freshman applicants who are in the top three quarters of their class, and whose high school rank and test scores place them near the general admission requirements, are eligible for an individual review. A limited number of students whose academic record demonstrates potential for academic success at SWT will be offered admission. Factors considered in the review process include specific class rank, size of graduating class, quality and competitive level of high school courses taken and grades earned, and the applicant’s individual verbal and math scores on either the ACT or SAT I. Additional factors such as bilingual proficiency, the applicant’s responsibilities while attending school, the applicant’s region of residence, and leadership in extracurricular (including community) activities will be considered when identified through an applicant’s resume and personal statement. The review, however, must clearly demonstrate potential for academic success during the freshman year at SWT. Students in the fourth quarter are not eligible for this review.

To be considered, students must submit a seven-semester transcript that includes class rank. A resume highlighting personal involvement and achievements while in high school and a personal statement that addresses factors the applicant wishes to bring to the attention of the admission office may also be submitted. Applicants will be notified of their admissibility or inadmissibility beginning March 1 for Summer Sessions I, II and Fall. Spring applicants will be notified beginning November 1. Students in the top quarter may be notified earlier.

Some applicants who are reviewed and approved for admission will be placed on a one-semester contract. This provisional admission is available only during the fall semester.

**Early Admission Program.** A high school student may apply for admission to SWT and take college course work while completing high school. Requirements for admission include a grade average of B or better, the recommendation from a high school counselor or principal, and evidence that the student will meet or exceed SWT freshman general admission requirements.

**Individual Approval.** Applicants with no previous college work who have been out of school for at least three years holding a high school diploma or GED equivalent must submit an official high school transcript validating high school graduation or GED completion certificate. The high school transcript, GED certificate, application and application fee must be submitted by the appropriate deadline. No test score is required for admission review. Students whose record demonstrates potential for academic success at SWT will be offered admission. Approval must be granted by the director of admission.

**General Education Development (GED) Tests.** Students with medical or personal reasons for not completing high school may elect to take the General Educational Development (GED) tests. SWT recognizes the GED tests from an applicant with no previous college work whose high school class has graduated. Students with a GED certificate may be considered for admission provided they meet 4th quarter test score requirements.

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

**Special Student Option.** Students with prior college work who are not working toward a degree at SWT may be considered for admission as a special student. Students under this designation are limited to a total of 15 semester hours. Special students must reapply each semester by the stated deadline. Students must be eligible to return to each previous postsecondary institution (i.e., free of suspension, dismissal or enforced withdrawal). Approval must be granted by the director of admission.

Work earned as a special student will be applied toward a degree only after the student has reapplied and has met general admission requirements. Courses completed as a special student will not be considered in the general admission decision.

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

**Academic Fresh Start.** Under the provisions of the Texas Education Code, Section 51.929, the Academic Fresh Start program was established to allow a Texas resident to apply for admission and elect to have all academic course work earned 10 or more years prior to the requested enrollment date ignored for admission purposes. Individuals who choose Academic Fresh Start, including former SWT students, must meet current published admission criteria for Southwest Texas State University and must submit official records from all colleges attended. Students admitted under this provision will not receive any course credit for courses taken 10 or more years prior to enrollment. For further information, contact the Office of Admission.

**International Student Admission.** An international student is defined as anyone who is not a United States citizen. However, a permanent resident alien who has completed two or more years in and graduated from a U.S. high school is required to meet the admission requirements established for U.S. citizens (refer to Undergraduate Admission Programs, page 14).

International applicants should complete the International Student Application form. The application and all credentials must be submitted by the required deadline. A non-refundable \$75.00 fee (U.S. currency) is required for all international applicants. Freshman applicants who are graduates of foreign secondary schools must demonstrate that they have above average academic achievement and an education equivalent to that of a U.S. high school graduate. Students transferring from foreign institutions must demonstrate above average academic achievement in their postsecondary education. Applicants must submit original academic records (or copies which have been certified by an appropriate school official) of all secondary and postsecondary course work, examination results, certificates awarded, and/or diplomas. A certified English translation must accompany the original academic records if the original records are not in English. Freshman applicants who are graduates of a U.S. high school and who completed at least two years in a U.S. high school must meet the freshman admission requirements established for U.S. citizens. Transfer applicants from within the U.S. must meet all regular transfer admission requirements (see page 16).

All applicants whose native language is not English must present proof of English proficiency as demonstrated on the Test of English as a Foreign Language (TOEFL). A TOEFL score of 550 or above is required. The new computer based TOEFL will have a different scoring scale. For information on comparable score requirements, contact the Office of Admission or our website at <http://www.swt.edu/admissions/undrgrad/reqmnts/internl/intrnt1.htm> Information concerning the TOEFL may be obtained from the Educational Testing Service, P.O. Box 899, Princeton, New Jersey, 08540, U.S.A.

International applicants who meet the established admission requirements but do not yet have the required level of English proficiency (550 on the TOEFL), may be eligible for the SWT/ESL Bridge program. Admission to the SWT/ESL Bridge program allows students to begin university academic study on a part-time basis while completing their English proficiency requirements in the SWT intensive English program. Acceptance into full-time academic study is contingent upon achieving a TOEFL score of 550 or above, successfully completing the intensive English program at SWT and completing the SWT credit courses with the grade of "C" or above.

International students who plan to attend SWT on an F-1 student visa must furnish proof of sufficient financial resources for their educational and personal expenses. For the 1998-99 academic year, a minimum of \$17,162 is required. An additional \$3,400 is needed for persons enrolling in summer sessions. After all academic and financial requirements have been met, SWT will issue a form I-20 to qualified international applicants. A permanent resident alien is not required to furnish proof of financial support and is not issued a form I-20. All nonimmigrant international students are required to carry health insurance as a condition of enrollment at SWT. Students may purchase the group medical insurance made available by the university or provide a comparable medical insurance plan of their own.

For further information, contact the Office of Admission at (512) 245-2802.

**Auditing Courses.** Those who wish to audit a course must be accepted by the Office of Admission and approved by the department offering the course. Audit status must be declared at registration. Participation in class discussion and examinations is optional with the instructor. Auditors receive no course credit but are expected to attend class regularly. With departmental approval, a student who has audited a course may later take the course for credit.

## Transfer Credit

**Evaluation of Transfer Credit.** Transfer of credit from another institution to SWT involves consideration of accreditation, comparability of course work and applicability of that course work to an SWT degree program. The Admission Office provides, along with the admission notification letter, an evaluated transcript which shows how each course the student has completed has been evaluated for transfer to SWT.

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

*No Regional Accreditation.* Course work from an institution which is neither regionally accredited nor a candidate for such accreditation will not be recognized for transfer purposes. Student appeals may be reviewed on an individual basis.

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

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

*Role of College of General Studies.* The College of General Studies will coordinate student requests for review of elective courses (ELNA, ELADV) for application to the general studies requirements.

*Role of School Dean and Department Chair of Student's Major.* The applicability of transferred credit toward a degree at SWT will be the decision of the school dean and the chair of the student's major department. The applicability of transferred credit will be evaluated on a course-by-course basis.

*Explanation of Evaluation Symbols.* Office of Admission personnel assign evaluation symbols to all courses submitted.

- 1) Courses which have direct SWT course equivalency will be equated to the SWT course number and be reflected accordingly on the evaluated transcript record.
- 2) Courses which hold transfer credit value, but which do not have an exact SWT course equivalency will transfer as elective courses. Elective courses will be recorded as: ELNA (for lower level freshman and sophomore courses) and ELADV (for upper level junior and senior courses). Courses transferred at the lower level cannot be equated as upper level courses. The school dean and the chair of the student's major department will determine how these elective courses apply toward the student's degree.
- 3) Courses evaluated as Technical and Vocational (T&V) are not transferable and are not computed in the GPA for admission purposes. In cases where T&V courses support a student's degree program, the student may request the chair of his/her major department to review the courses. If approved, the T&V credit will be recorded on the student's official SWT transcript for application to that degree program. Should the student's major change, the applicability of the T&V credit toward the new major will be subject to review by the chair of the student's new major department. Although T&V credit is generally not accepted, a student may validate course work for SWT credit by passing a qualifying exam.
- 4) Courses which hold no transfer value for either admission or degree purposes are evaluated as Non-Transferable (NT). Generally, these are courses that are remedial, preparatory, or developmental in nature.
- 5) Physical fitness activity courses are evaluated as Activity (ACT). These are transferable for admission and degree purposes.

**Texas Junior/Community College Transfer Students.** Prior to transferring from a Texas junior/community college, students should discuss their course selections and degree plans with their two year college counselor or academic advisor. Course equivalency guides and SWT General Studies curriculum guides for all Texas junior/community colleges are available. These guides may be obtained from the junior/community college counselor, the SWT Office of Admission or through the SWT Admission Office website ([www.swt.edu/admissions/undrgrad/reqmnts/transfer/guides/](http://www.swt.edu/admissions/undrgrad/reqmnts/transfer/guides/)). Students are encouraged to plan all course selections at the junior/community college as far in advance as possible. Proper planning and use of the equivalency information will maximize the transfer of credit to SWT.

**Articulation Agreements.** Southwest Texas State University has formal articulation agreements with Austin Community College and San Antonio College. Transfer planning guides have been developed for many programs in these community colleges and for many additional programs in other community colleges. Potential transfer students should consult with the school advising centers to determine if a transfer planning guide exists for his/her major.

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

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

In the course description sections of the catalog, the common course number is shown in parentheses - example (ENGL 1301). The following is a list of all the common course numbers currently adopted by Southwest Texas State University. The courses that fulfill the General Studies requirements on page 60 are designated with an asterisk.

TCC #	SWT #
ACCT 2301 .....	ACC 2361
ACCT 2302 .....	ACC 2362
AGRI 1131 .....	ASD 1110
AGRI 1309 .....	AG 2390
AGRI 1315 .....	AG 2379



AGRI 1419 .....	AG 1445
AGRI 2317 .....	AG 2383
ANTH 2351 .....	*ANTH 1312
ARTS 1303 .....	*ARTH 2301
ARTS 1304 .....	*ARTH 2302
ARTS 1311 .....	ARTF 1301
ARTS 1312 .....	ARTF 1303
ARTS 1316 .....	ARTF 1302
ARTS 2311 .....	ARTF 1304
ARTS 2316 .....	ARTS 2351
ARTS 2323 .....	ARTS 2321
ARTS 2326 .....	ARTS 2381
ARTS 2333 .....	ARTS 2371
ARTS 2336 .....	ARTS 2331
ARTS 2341 .....	ARTS 2341
ARTS 2346 .....	ARTS 2311
ARTS 2366 .....	ARTS 2391
BCIS 1301 .....	CIS 1323
BCIS 1316 .....	CIS 2324
BCIS 1332 .....	CIS 2371
BIOL 1322 .....	FCS 2367
BIOL 1411 .....	*BIO 1410
BIOL 1413 .....	*BIO 1420
BIOL 2420 .....	BIO 2440
BUSI 1301 .....	MGT 1321
BUSI 2301 .....	BLAW 2361
CHEM 1305 .....	*CHEM 1310

<b>TCC #</b>	<b>SWT #</b>
CHEM 1407 .....	*CHEM 1430
CHEM 1411 .....	*CHEM 1410
CHEM 1412 .....	*CHEM 1420
CHEM 2423 .....	CHEM 2410
CHEM 2425 .....	CHEM 2420
COMM 1307 .....	MC 1301
COMM 2311 .....	MC 1313
COSC 1300 .....	CS 1308
COSC 1320 .....	CS 1318
COSC 1332 .....	CIS 2371
COSC 2320 .....	CS 2308
CRIJ 1301 .....	CJ 1310
CRIJ 1306 .....	CJ 2350
CRIJ 1307 .....	CJ 2324
CRIJ 1310 .....	CJ 2360
CRIJ 2313 .....	CJ 2355
CRIJ 2314 .....	CJ 2330
CRIJ 2323 .....	CJ 2315
CRIJ 2328 .....	CJ 2310
DANC 1122 .....	PFW 1180J
DANC 1128 .....	PFW 1180J
DANC 1133 .....	PFW 1180J
DANC 1141 .....	PFW 1180D
DANC 1142 .....	PFW 1180E
DANC 1145 .....	PFW 1180G
DANC 1146 .....	PFW 1180H
DANC 1147 .....	PFW 1180A
DANC 1148 .....	PFW 1180B
DANC 1201 .....	DAN 2208
DANC 2141 .....	PFW 1180F
DANC 2145 .....	PFW 1180I
DANC 2147 .....	PFW 1180C

<b>TCC #</b>	<b>SWT #</b>
DRAM 1120 .....	TH 2111
DRAM 1121 .....	TH 2111
DRAM 1141 .....	TH 2111
DRAM 1161 .....	TH 2111
DRAM 1162 .....	TH 2111
DRAM 1322 .....	TH 1354
DRAM 1330 .....	TH 1358
DRAM 1351 .....	TH 1364
DRAM 1352 .....	TH 1365
DRAM 2120 .....	TH 2111
DRAM 2121 .....	TH 2111
DRAM 2331 .....	TH 2338
DRAM 2336 .....	TH 1340
DRAM 2351 .....	TH 2354
ECON 2301 .....	ECO 2310
ECON 2302 .....	*ECO 2320
ENGL 1301 .....	*ENG 1310
ENGL 1302 .....	*ENG 1320
ENGL 2322 .....	*ENG 2310
ENGL 2323 .....	*ENG 2320
ENGL 2327 .....	*ENG 2359
ENGL 2328 .....	*ENG 2360
ENGL 2332 .....	*ENG 2330
ENGL 2333 .....	*ENG 2340
ENGR 2305 .....	TECH 2370
FREN 1411 .....	FR 1410
FREN 1412 .....	*FR 1420
FREN 2311 .....	*FR 2310
FREN 2312 .....	*FR 2320
GEOG 1302 .....	*GEO 1309
GEOG 1303 .....	*GEO 1310
GEOL 1403 .....	*GEOL 1410
GEOL 1404 .....	*GEOL 1420
GERM 1411 .....	GER 1410
GERM 1412 .....	*GER 1420
GERM 2311 .....	*GER 2310
GERM 2312 .....	*GER 2320
GOVT 2301 .....	*POSI 2310
GOVT 2302 .....	*POSI 2320
GOVT 2304 .....	POSI 1309
HECO 1315 .....	FCS 2360
HECO 1320 .....	FCS 1332
HECO 1325 .....	FCS 2329
HECO 1328 .....	FCS 2333
HECO 2311 .....	FCS 1337
HIST 1301 .....	*HIST 1310
HIST 1302 .....	*HIST 1320
HIST 2311 .....	*HIST 2310
HIST 2312 .....	*HIST 2320
HIST 2321 .....	*HIST 2311
HIST 2322 .....	*HIST 2312
HORT 1301 .....	AG 2379

<b>TCC #</b>	<b>SWT #</b>
JAPN 1411 .....	JAPA 1410
JAPN 1412 .....	*JAPA 1420
JAPN 2311 .....	*JAPA 2310
JAPN 2312 .....	*JAPA 2320
MATH 1314 .....	*MATH 1315

MATH 1316 .....	MATH 1317
MATH 1324 .....	*MATH 1319
MATH 1325 .....	MATH 1329
MATH 1335 .....	MATH 2311
MATH 1348 .....	MATH 2363
MATH 2305 .....	MATH 2358
MATH 2312 .....	MATH 2301
MATH 2342 .....	MATH 2328
MATH 2412 .....	*MATH 2417
MATH 2413 .....	*MATH 2471
MATH 2414 .....	MATH 2472
MUSI 1104.....	MU 2123
MUSI 1157.....	MUSE 1121S
MUSI 1158.....	MUSE 1121S
MUSI 1166.....	MUSP 1111T
MUSI 1167.....	MUSP 1111T
MUSI 1168.....	MUSP 1111S
MUSI 1181.....	MUSP 1108W
MUSI 1182.....	MUSP 1110W
MUSI 1183.....	MUSP 1131Z
MUSI 1184.....	MUSP 2131Z
MUSI 1188.....	MUSP 1111U
MUSI 1189.....	MUSP 1111R
MUSI 1208.....	MU 2203
MUSI 1209.....	MU 2204
MUSI 1216.....	MU 1210
MUSI 1217.....	MU 1212
MUSI 1303.....	MU 2310
MUSI 2157.....	MUSE 2121S
MUSI 2158.....	MUSE 2121S
MUSI 2160.....	MU 2141
MUSI 2161.....	MU 2141
MUSI 2166.....	MUSP 2113T
MUSI 2167.....	MUSP 2113T
MUSI 2168.....	MUSP 2113S
MUSI 2181.....	MUSP 1112W
MUSI 2182.....	MUSP 1114W
MUSI 2188.....	MUSP 2113U
MUSI 2189.....	MUSP 2113R
MUSI 2216.....	MU 2260
MUSI 2217.....	MU 2262
OFAD 2301 .....	MGT 1325
PHED 1164 .....	PFW 1101
PHED 1301 .....	PE 1310
PHED 1304 .....	H ED 1310
PHED 1306 .....	H ED 2354
PHED 1333 .....	PE 2365

<b>TCC #</b>	<b>SWT #</b>
PHED 1336 .....	REC 2335
PHED 1346 .....	H ED 2338
PHIL 1301 .....	*PHIL 1305
PHIL 2303 .....	PHIL 2330
PHIL 2316 .....	PHIL 2311
PHIL 2317 .....	PHIL 2312
PHYS 1105.....	*PHYS 1110
PHYS 1111.....	PHYS 1140
PHYS 1305.....	*PHYS 1310
PHYS 1307.....	*PHYS 1320
PHYS 1311.....	PHYS 1340
PHYS 1312.....	PHYS 1350

PHYS 1401.....	*PHYS 1410
PHYS 1402.....	*PHYS 1420
PHYS 2425.....	*PHYS 1430
PHYS 2426.....	*PHYS 2425
PHYS 2427.....	*PHYS 2435
PSYC 2301.....	*PSY 1300
PSYC 2306.....	PSY 2311
PSYC 2314.....	PSY 2315
PSYC 2315.....	PSY 2350
RUSS 1411.....	RUSS 1410
RUSS 1412.....	*RUSS 1420

TCC #	SWT #
RUSS 2311.....	*RUSS 2310
RUSS 2312.....	*RUSS 2320
SGNL 1401.....	CDIS 1410
SGNL 1402.....	CDIS 1420
SGNL 2301.....	CDIS 2310
SGNL 2302.....	CDIS 2320
SOCI 1301.....	*SOCI 1310
SOCI 1306.....	SOCI 2320
SOCW 2361.....	SOWK 1350
SPAN 1411.....	SPAN 1410
SPAN 1412.....	*SPAN 1420
SPAN 2311.....	*SPAN 2310
SPAN 2312.....	*SPAN 2320
SPCH 1144.....	COMM 2111
SPCH 1145.....	COMM 2111
SPCH 1311.....	*COMM 1310
SPCH 1315.....	COMM 2338
SPCH 1318.....	COMM 1315
SPCH 1342.....	COMM 1340
SPCH 2144.....	COMM 2111
SPCH 2145.....	COMM 2111
SPCH 2333.....	COMM 2330
SPCH 2335.....	COMM 2325

**Transcripts.** Official SWT transcripts separate transfer course work and grades from SWT course work and grades. The transfer grade point average is used to determine eligibility for admission purposes. Credits transferred are included in the total hours the student has earned, but the grades and quality points are not transferred and do not affect the student's grade point average at SWT.

**Maximum Hours Accepted.** SWT will apply to a specific degree no more than 66 semester hours from an accredited junior/community college (at the approval of the individual dean, 6-8 hours may be added). At the time of the transfer, all transferable work completed at a junior/community college will be recorded on the official transcript. If the number of hours transferred from a junior/community college exceeds 66 hours, it will be the responsibility of the department chair to recommend to the academic dean how the student will satisfy degree requirements.

**Resolution of Transfer Disputes for Lower-Division Courses.**

- a. The following procedures shall be followed by public institutions of higher education in the resolution of transfer credit disputes involving lower-division courses:
  1. If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that transfer of the course credit is denied.
  2. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Board rules and/or guidelines.
  3. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the institution whose credit is denied for transfer shall notify the Commissioner of the denial.
- b. The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about the dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.
- c. All public institutions of higher education shall publish the procedures described in subsections (a) and (b) of this section in their undergraduate course catalogs.

- d. All public institutions of higher education shall furnish data to the Board on transfer disputes as the Board may require in accord with its statutory responsibilities under Section 61.078(e) of the Education Code.
- e. If a receiving institution has cause to believe that a course being presented by a student for transfer from another school is not of an acceptable level of quality, it should notify the Commissioner of Higher Education. The Commissioner may investigate the course. If its quality is found to be unacceptable, the Board may discontinue funding for the course.

## Non-Traditional Credit

Students admitted to SWT may earn academic credit for learning or experience they have completed before enrolling. Three types of non-traditional credit are summarized below. For further information, contact the Office of Admission at (512) 245-2364.

**Credit for Experiential Learning.** The Office of Occupational Education is the only academic unit at SWT that awards academic credit for experiential learning. Such credit is validated after enrollment at SWT according to established criteria and is forwarded to the Office of Admission for posting to the student's record. Should a student change majors, the validation of extra-institutional credit will be re-evaluated by the new department. For information call (512) 245-2115.

**Military Credit.** The Office of Admission will review course work from educational experience obtained in the Armed Forces. Four hours of physical education activity credit will be awarded by the Office of Admission upon receipt of Form DD214 that verifies one year of active military duty. Other military course work may be considered for transfer credit. The student must submit Form DD295 or an official AARTS transcript. The Office of Admission will use the "Guide to the Evaluation of Educational Experience in the Armed Services" for evaluating the course work. Evaluations will be completed after enrollment and transfer credit is subject to approval by the student's major department. Credit from the Community College of the Air Force will be recorded as technical and vocational with the exception of four hours of physical education activity credit.

**Credit-by-Examination.** Credit earned through examination may be awarded SWT transfer credit when listed on an official transcript of the college or university where the student has been enrolled. Such credits are evaluated by transfer credit criteria and awarded grades of credit (CR) only.

For further information on credit by examination offered at SWT, contact the Testing, Research-Support and Evaluation Center (TREC) at (512) 245-2276. See also page 81.

## Campus Visits

Students and their parents are welcome to visit SWT any day the university is open. Drop-in visitors are welcome but a call or letter a few days in advance will help the admission staff give the best possible service. When classes are in session, campus tours are available Monday through Friday, from 10 a.m. through 2 p.m. University offices are closed on weekends; however, a Visitors Center located on the third level of the LBJ Student Center is open on a limited basis (except on holidays) to assist campus visitors. Convenient "for fee" parking is available at the parking facility adjacent to the Center and can be accessed off Sessoms Drive. The "admissions" home page located at the University's web site (<http://www.swt.edu>) includes additional information to help plan a campus visit.

College Day at SWT is a special Saturday when prospective students and their families visit the campus to learn about academic programs, services, activities, and admission. College Days are normally scheduled for one Saturday in the fall and two in the spring. For information on specific dates, contact the Office of Admission at (512) 245-2364.

## New Student Orientation and Registration for Classes

Freshmen and transfers entering SWT for the first time must attend New Student Orientation. These special programs for freshman and transfer students are held before each semester to provide information about student services, class scheduling, and registration. These sessions also include academic advisement for new students. All new freshmen and transfers who have fulfilled SWT's admission and housing requirements will be mailed orientation information prior to the semester for which they plan to enroll.

Prior to orientation and registration, it is recommended that each student have a completed medical history form and an immunization record or approved exemption certificate on file at the Student Health Center. There should be evidence of freedom from infectious tuberculosis and adequate levels of immunity, acquired naturally or by immunization against the following diseases: tetanus; diphtheria; poliomyelitis (I, II, III); measles, mumps and rubella (MMR). A medical history form will be enclosed with the student's letter of acceptance. For further information, call the Student Health Center at (512) 245-2161.

## Residency for Tuition

The determination of residency classification for tuition purposes is governed by statutes enacted by the Texas Legislature and rules and regulations promulgated by the Texas Higher Education Coordinating Board. Following are statutes covering some of the more common residency situations. They are neither exhaustive nor complete and should not be interpreted as such. Full regulations are given in the Coordinating Board publication *Rules and Regulations for Determining Residence Status*. This publication and further information is available from the Office of Admission.

A student's status as a resident, non-resident or foreign student will be determined by the Office of Admission prior to enrollment. The student is responsible for registering under the proper residence classification. Any change in residency status must be reported to the Office of Admission.

**Minors and Dependents.** Statute: Section 54.02(a)(3) “Dependent” means an individual who is claimed as a dependent for federal income tax purposes by the individual’s parent or guardian at the time of registration and for the tax year preceding the year in which the individual registers.

Section 54.052(c) An individual who is under 18 years of age or is a dependent and who is living away from family and whose family resides in another state or has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student.

Section 54.052(d) An individual who is under 18 years of age or is a dependent and whose family has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student, regardless of whether he has become the legal ward of residents of Texas or has been adopted by residents of Texas while he is attending an educational institution in Texas, or within a 12-month period before his attendance, or under circumstances indicating that the guardianship or adoption was for the purpose of obtaining status as a resident student.

Section 54.055 An individual who is 18 years of age or under or is a dependent and whose parents were formerly residents of Texas is entitled to pay the resident tuition fee following the parents’ change of legal residence to another state, as long as the individual remains continuously enrolled in a regular session in a state-supported institution of higher education.

**Foreign Students.** Statute: Section 54.057(a) An alien who is living in this country under a visa permitting permanent residence or who has filed with the proper federal immigration authorities a declaration of intention to become a citizen has the same privilege for qualifying for resident status for fee purposes under this Act as has a citizen of the United States. (Note: In the case of a dependent student, both the student and a parent must have permanent resident status. Persons granted permanent resident status while in Texas must wait a minimum of 12 months from date of issue to request resident status for tuition purposes.)

**Married Students.** Statute: Section 54.056 A student who is a resident of Texas and who marries a nonresident is entitled to pay the resident tuition fee as long as the student does not adopt the legal residence of the spouse in another state.

**Independent Individuals Over 18.** Statute: Section 54.052(e) An individual who is 18 years of age or over who has come from outside Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in an educational institution shall be classified as a resident student as long as he continues to maintain a legal residence in Texas.

Section 54.052(f) An individual who is 18 years of age or over who resides out of the state or who has come from outside Texas and who registers in an educational institution before having resided in Texas for a 12-month period shall be classified as a nonresident student.

Section 54.052(g) An individual who would have been classified as a resident for the first five of the six years immediately preceding registration but who resided in another state for all or part of the year immediately preceding registration shall be classified as a resident student. (Note: The parent(s) of dependents must return to the state to live in order for the dependent to be considered a resident.)

**Reclassification.** Section: 54.054 A nonresident student classification is presumed to be correct as long as the residence of the individual in the state is primarily for the purpose of attending an educational institution. (Students seeking reclassification should contact the Office of Admission for further information.)

**Exceptions.** A non-resident may qualify to pay in-state tuition if:

- 1) The student or student’s spouse or parent is a member of the Armed Forces or a commissioned officer of the Public Health Service and is stationed in Texas. (Military and Public Health Service personnel who maintain their official home of record as Texas or who meet the criteria for establishing a domicile in Texas are considered to be Texas residents. Contact the Office of Admission for specific requirements.)
- 2) The student or student’s spouse or parent is employed at least half-time as a teaching or research assistant in a position related to the assistant’s degree program at a Texas public institution of higher education.
- 3) The student or student’s spouse or parent is employed at least half-time on a regular monthly salaried basis as a teacher or professor at a Texas public institution of higher education.
- 4) The student holds a competitive scholarship from SWT of at least \$1000 for the academic year or summer awarded by an official SWT scholarship committee.
- 5) The student or student’s spouse or parent has located in Texas as an employee of a business or organization that became established in this state as part of the program of state economic development and diversification program. (Note: Contact the Office of Admission for list of qualified employers.)

## RESIDENCE LIFE

Ask someone about their college experience, and they’re likely to relate stories of the most exciting, intense and memorable times of their lives. These memories will almost always relate to their experience in a residence hall. A campus environment is conducive to an atmosphere where lifetime friendships are formed, ideas and ideals are exchanged, and a whole world of opportunity and potential is spread before those willing to explore, study and get involved. In fact, many of these experiences occur outside the classroom in the living and social environment of the residence halls.

It is our mission to provide you with an environment that will enhance your academic success and provide you with skills necessary to be successful in your career choice. Research has shown that, when compared to those living elsewhere, students living in the residence halls are more fully involved in academic and extracurricular activities, and tend to earn a higher grade point average.

The residence halls at SWT provide a setting for these experiences, offering several group living options in our 20 halls and 3 apartment complexes which accommodate some 5000 students. Students living on campus are close to classrooms, laboratories, exhibits, the LBJ Student Center, Alkek Library, athletic facilities, the Student Recreation Center, Student Health Center, and downtown shops and businesses. Many different types of living environments, from traditional, community bath, to suite style, to halls with private baths, coed halls, single sex halls, limited visitation halls and 24 hour visitation halls, all offer you the opportunity to find the one best arrangement suited for you.

Our staff encourages and promotes education and service. We make ourselves available to assist in developing your academic, social and personal growth. The staff is committed to quality and excellent service that will continue to meet your expectations as you grow in these areas.

No matter what you like to eat, when you want to eat, or who you want to be with, our food plans have your needs in mind. We offer five dining plans so you can pick the one that best fits your schedule, eating preferences, and pocketbook. Some plans offer Paw Points, which you can use like cash to purchase food at any campus dining facility.

For further information about on campus housing or meals, write to Residence Life or call (512) 245-2382.

## **University Housing Policy**

In support of the educational mission of the University and the value of the on-campus life to the academic success of most students, all unmarried students under 21 years of age who may have completed fewer than 56 credit hours must reside in university housing. Students are required to sign a room and board contract that is binding for the full academic year or summer terms. Exceptions MAY be granted if a student lives at home with a parent or is married. Students must complete an Off Campus Request and submit it to Residence Life with sufficient documentation to support the information given. Students who will have completed at least 56 credit hours or are at least 21 years of age do NOT need to submit an off campus request prior to the contract period.

## **Applying to Live On Campus**

Contracts for on-campus housing are distributed and accepted only after you have been admitted to the university. Your social security number must be on the contract to ensure accurate processing. All applicants will be prioritized according to the date the contract and deposit are received by Residence Life.

A \$100 deposit must accompany the housing contract. Please submit a check or money order. Cash deposits are not accepted. Make check payable to : Southwest Texas State University-Residence Life. This deposit is retained on file with the university as long as you are housed on-campus or have an active contract for a future semester. The deposit is used against unnecessary wear and damages to the room, to deter against late reservation cancellations and to maintain contracts in the active file. The deposit is not applied to residence hall rent. Deposits will be refunded upon your request if all cancellation criteria are met and all monies owed to the University have been paid. A request for a refund must be made by you either in person or in writing to Residence Life.

## **Cancellation Deadlines**

Once your contract has been signed and returned, cancellation deadlines must be met for a deposit to be refunded. The deadline dates for cancellation of a contract are:

For a Fall Semester ..... July 1  
For a Spring Semester ..... December 1  
For either Summer Session ..... May 15

## **What to Bring?**

Each room is furnished to meet your basic furniture needs. In general, you will need to provide linens (blankets, sheets, pillows and towels), alarm clock, bedspread, study lamps and wastebasket. Twin size beds (some bunk beds) with standard twin mattresses are provided in each room. Stereos, fans, small refrigerators and televisions are permitted, but you may wish to consult your roommate to avoid duplication.

Besides these basics, there is the opportunity for you to create your own environment through the use of posters, carpeting, plants, special construction and painting. The style of your room will be limited by your own imagination. There are policies in each hall regarding what you can and cannot do to the structure and furnishings in your room.

## **FINANCIAL AID**

Southwest Texas State University makes every effort to help students who need assistance in paying for the cost of their education. Various financial aid programs are available. Interested students should visit, write, or call the Office of Student Financial Aid, located in Room 240, J.C. Kellam Building. Counselors are available during regular business hours. Phone (512) 245-2315. You may also contact us on the web at [www.finaid.swt.edu](http://www.finaid.swt.edu).

## Federal and State Aid Programs

Southwest Texas State University participates in a number of federal and state financial aid programs. Students may apply for such grant programs as the Federal Pell Grant, Federal Supplemental Education Opportunity Grant, Texas Public Education Grant, and State Student Incentive Grant. There are also several long-term loan programs available to SWT students, including the Federal Stafford Loan, Federal Perkins Loan, Hinson-Hazlewood Student Loan, College Access Loan, Federal Direct Loan, and Federal Direct Parent Loan for Undergraduate Students. The Federal Direct Lending Program is limited to new borrowers with no previous participation in the Federal Stafford, SLS, etc. The interest rates for these loans may vary. Except for the Federal Direct Parent Loan, repayment generally does not begin until six months after the student leaves school or drops below a half-time status. Another source of financial aid is the Federal and Texas Work Study Programs. These programs are available for SWT students showing financial need who wish to earn part of their educational expenses.

## Applying for Financial Aid

To apply for a grant, loan or one of the Work Programs, students should first complete the Free Application for Federal Student Aid (FAFSA) which is available from high school counselors, an area college or university, or the SWT Office of Financial aid. Regretfully, Free Application for Federal Student Aid cannot be mailed. The FAFSA should be completed and sent to the processing center in the addressed envelope provided. Note: You may access your file status and financial aid awards by dialing 1-512-392-CATS with a transaction code 40.

**Deadlines.** The priority date for filing a Financial Aid Application is April 1 prior to the Fall or Spring semester for which aid is desired. Students who miss the priority application date will be considered for aid after on-time applicants are processed. Missing the priority application date means that aid will probably not be available when a student registers for classes and will not receive any gift aid even if eligible, other than the Federal Pell Grant.

## Requirements for Maintaining Financial Aid

**Satisfactory Academic Progress.** Students receiving financial assistance through any federal or state programs must meet academic progress requirements. Generally, these requirements include a minimum SWT GPA of a 2.0 and completion of an average of 12 semester hours of new course work each long semester enrolled.

**Enrollment Status.** Students receiving assistance from any of the above financial aid programs must be enrolled at least half-time (6 semester hours during a long semester or 3 during each summer term). Financial aid recipients who withdraw from the university or reduce hours by officially dropping a course may be required to repay financial aid received. Repayment will be in accordance with the refund schedule developed by the Director of Accounting and published in the Schedule of Classes each semester.

## Other Financial Assistance

**Scholarships.** Scholarships are available to qualified students on a competitive basis. Information is included in the SWT Scholarship Application Pamphlet available on request from the Office of Student Financial Aid. February 1 is the scholarship deadline. *A separate Scholarship application is required and can be obtained through the Office of Student Financial Aid.* Students who are not Texas residents and receive an SWT competitive scholarship in the amount of at least \$1,000 may be eligible to pay resident tuition.

**Short-Term Assistance.** Students who need short-term/emergency assistance may borrow from \$50 to \$250, to be repaid within the semester. Students must be enrolled at least half-time, have an SWT GPA of at least 2.0, and have no holds on record and no defaults on previous short-term loans. Students who need assistance in paying tuition at registration may apply for the Emergency Tuition and Fees Loan Program (ETLP). The amount of this loan normally does not exceed the costs of tuition and course fees. A limited number of ETLP's for on-campus room and board are available. These are somewhat more restricted.

## CAREER SERVICES

Students have access to a wide array of career related programs and services through the office of Career Services.

### Career Planning

Career counseling and planning assistance is offered to help with selection of a major and the establishment of career goals. Career assessment instruments and computerized career guidance programs are available for use in this process.

### Part-time/Summer Employment

Part-time/summer employment assistance for both on and off campus jobs is available to aid students needing additional financial resources to continue their education.



## **Internships/Mentoring/Job Shadowing**

Experiential learning programs such as these are available to help students - refine career goals and gain valuable work world exposure and experience.

## **Job Search Assistance**

Services include individual assistance and workshops dealing with job search preparation (resume writing, interviewing, Internet use), on-campus interviews, resume referrals and job postings.

## **Other Career Assistance**

The JCPenney Career Information Center houses resources to help students learn about potential careers and employers. Assistance and information is also provided to students pursuing graduate and professional school goals. Special programs such as Majors Decision Farm, Careers Day (September), Summer Job Fair (February) and the National Multicultural Job Expo (April) bring hundreds of employers and academic opportunities to Campus. Students are able to discuss careers, graduate/professional schools, summer employment, internships and professional employment with the various representatives. For further information contact Career Services at (512) 245-2645 or [www.swt.edu/careerservices](http://www.swt.edu/careerservices).





# **FEES AND EXPENSES**

**Registration Fees**  
**Fees for Special Courses**  
**Other Special Fees**  
**Room and Board Fees**  
**Installment Policy**  
**Refunds**  
**Withdrawals**  
**Other Fee Information**

## FEES AND EXPENSES

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

**Payment of Fees.** Registration fees and deposits are payable at the time of registration. **A student is not registered until fees are paid.** Payment may be made by check or money order payable to Southwest Texas State University. Visa/Master Card, and American Express credit card payments are also acceptable upon presentation of the credit card.

**Tuition Rebate Program.** Under Texas law Senate Bill 1907 qualified students will receive a \$1000 tuition rebate upon graduation from the University. To be eligible for this rebate, a student must meet all of the following conditions:

- 1) the first enrollment in any institution of higher education must be in the fall 1997 semester or later,
- 2) the student must have received his/her baccalaureate degree from a Texas public university,
- 3) the student must be a resident of Texas and entitled to pay resident tuition at all times while pursuing the degree, and
- 4) the student must attempt no more than three hours in excess of the minimum number of semester credit hours required to complete the degree under the catalog under which he/she graduates. Hours attempted include transfer credits, course credit earned exclusively by examination, courses that are dropped after the official census date (twelfth class day fall and spring semesters, fourth class day summer sessions including mini-session), for-credit developmental courses, optional internship and cooperative education courses, and repeated courses. Courses dropped for reasons that are determined by the institution to be totally beyond the control of the student shall not be counted.

This new tuition rebate program is designed to provide a financial incentive for students to complete their baccalaureate studies with as few extraneous courses as possible. To earn the rebate, it is particularly important to follow the advice and counsel of the academic advisors.

**Fees for Excessive Undergraduate Hours.** Under Texas law Senate Bill 1907 students who have attempted 170 or more semester credit hours while classified as a resident student are subject to a higher tuition rate. Specifically, the law does not apply to a student enrolled in:

- 1) two or more baccalaureate degree programs at the same time;
- 2) a double major degree program that requires 130 or more semester credits for completion; or
- 3) a health professional baccalaureate degree program.

The following semester credit hours are not counted for purposes of determining whether the student has previously earned 170 or more semester credit hours:

- a) semester credit hours earned by the student at a private institution or an out-of-state institution;
- b) semester credit hours earned for remedial education courses, or courses that do not count toward a degree program at the University;
- c) semester credit hours earned by examination, or under any other procedure by which credit is earned without registering for a course for which tuition is charged;
- d) semester credit hours earned 10 or more years before the date the student begins a new degree program;
- e) semester credit hours earned in fulfillment of a first baccalaureate degree before the student begins a new degree program.

**Returned Checks.** If a check or checks are returned unpaid for any reason other than the admitted error of the bank, the student must pay in cash, cashiers check or money order, immediately and a \$25 service fee is assessed for each returned check.

If a registration check is returned unpaid, the student must make payment (check amount along with \$25 service fee) within ten working days. If the student does not make restitution within the notified time period, the University reserves the right to initiate withdrawal procedures. You will not be officially withdrawn by the Cashiers Office unless you are notified in writing. It is the student's responsibility to initiate a formal withdrawal from the University at the Registrar's Office.

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

If a student has an outstanding returned check, he/she will be on a "cash-only" basis until the obligation is cleared. Cash Only status is a denial of check cashing privileges on campus. If a student has three or more returned checks within a 365 day period (i.e., one calendar year), the University reserves the right to place the student on a "cash-only" basis for one calendar year from the date of payment for the last returned check. Students whose checks have been dishonored may be required to pay in cash.

Loose coins in excess of the appropriate denomination required by banks are not acceptable for payment of any fee unless they are wrapped in appropriate denominational coin wrappers and signed by the payer.

## Registration Fees

### RESIDENTS OF TEXAS Fall and Spring Semesters 1998-1999 (per semester)

Hrs	Tuition	<sup>1</sup> Tuition SB 1907	Stu Serv Fee	Stu Ctr Fee	Bus Fee	Comp Serv Fee	Stu Pub Fee	Rec Sports Fee	Inter- nat'l Fee	Med Ser Fee	Library Fee	Total
1	\$120.00	\$30.00	\$14.00	\$50.00	\$29.00	\$6.00	\$6.00	\$41.00	\$1.00	\$28.00	\$3.00	\$328.00
2	120.00	60.00	28.00	50.00	29.00	12.00	6.00	41.00	1.00	28.00	6.00	381.00
3	120.00	90.00	42.00	50.00	29.00	18.00	6.00	41.00	1.00	28.00	9.00	434.00
4	144.00	120.00	56.00	50.00	29.00	24.00	6.00	41.00	1.00	28.00	12.00	511.00
5	180.00	150.00	70.00	50.00	29.00	30.00	6.00	41.00	1.00	28.00	15.00	600.00
6	216.00	180.00	84.00	50.00	29.00	36.00	6.00	41.00	1.00	28.00	18.00	689.00
7	252.00	210.00	98.00	50.00	29.00	42.00	6.00	41.00	1.00	28.00	21.00	778.00
8	288.00	240.00	112.00	50.00	29.00	48.00	6.00	41.00	1.00	28.00	24.00	867.00
9	324.00	270.00	126.00	50.00	29.00	54.00	6.00	41.00	1.00	28.00	27.00	956.00
10	360.00	300.00	139.00	50.00	29.00	60.00	6.00	41.00	1.00	28.00	30.00	1044.00
11	396.00	330.00	139.00	50.00	29.00	66.00	6.00	41.00	1.00	28.00	33.00	1119.00
12	432.00	360.00	139.00	50.00	29.00	72.00	6.00	41.00	1.00	28.00	36.00	1194.00
13	468.00	390.00	139.00	50.00	29.00	78.00	6.00	41.00	1.00	28.00	39.00	1269.00
14	504.00	420.00	139.00	50.00	29.00	84.00	6.00	41.00	1.00	28.00	42.00	1344.00
15	540.00	450.00	139.00	50.00	29.00	90.00	6.00	41.00	1.00	28.00	45.00	1419.00
16	576.00	480.00	139.00	50.00	29.00	96.00	6.00	41.00	1.00	28.00	48.00	1494.00
17	612.00	510.00	139.00	50.00	29.00	102.00	6.00	41.00	1.00	28.00	51.00	1569.00
18	648.00	540.00	139.00	50.00	29.00	108.00	6.00	41.00	1.00	28.00	54.00	1644.00
19	684.00	570.00	139.00	50.00	29.00	114.00	6.00	41.00	1.00	28.00	57.00	1719.00
20	720.00 <sup>2</sup>	600.00 <sup>2</sup>	139.00	50.00	29.00	120.00 <sup>2</sup>	6.00	41.00	1.00	28.00	60.00 <sup>2</sup>	1794.00

<sup>1</sup>Formerly General Use Fee (GUF)

<sup>2</sup>Add \$36 for tuition, \$30 for tuition-SB 1907, \$3 for library fee and \$6 for computer service fee for each hour over 20. All other fees remain the same.

### SUMMER TERM 1999 (per term)

Hrs	Tuition	<sup>1</sup> Tuition SB 1907	Stu Serv Fee	Stu Ctr Fee	Bus Fee	Comp Serv Fee	Stu Pub Fee	Rec Sports Fee	Inter- nat'l Fee	Med Ser Fee	Library Fee	Total
1	\$60.00	\$30.00	\$14.00	\$25.00	\$14.50	\$6.00	\$6.00	\$20.50	\$1.00	\$14.00	\$3.00	\$194.00
2	72.00	60.00	28.00	25.00	14.50	12.00	6.00	20.50	1.00	14.00	6.00	259.00
3	108.00	90.00	42.00	25.00	14.50	18.00	6.00	20.50	1.00	14.00	9.00	348.00
4	144.00	120.00	56.00	25.00	14.50	24.00	6.00	20.50	1.00	14.00	12.00	437.00
5	180.00	150.00	69.50	25.00	14.50	30.00	6.00	20.50	1.00	14.00	15.00	525.50
6	216.00	180.00	69.50	25.00	14.50	36.00	6.00	20.50	1.00	14.00	18.00	600.50
7	252.00 <sup>2</sup>	210.00 <sup>2</sup>	69.50	25.00	14.50	42.00 <sup>2</sup>	6.00	20.50	1.00	14.00	21.00	675.50

<sup>1</sup>Formerly General Use Fee (GUF)

<sup>2</sup>Add \$36 for tuition, \$30 for tuition-SB 1907, \$3 for library fee and \$6 for computer service fee for each hour over 7. All other fees remain the same.

NON-RESIDENT STUDENTS/UNITED STATES CITIZENS  
AND FOREIGN STUDENTS  
Fall and Spring Semesters 1998-1999  
(per semester)

Hrs	Tuition	<sup>1</sup> Tuition SB 1907	Stu Serv Fee	Stu Ctr Fee	Bus Fee	Comp Serv Fee	Stu Pub Fee	Rec Sports Fee	Inter- nat'l Fee	Med Ser Fee	Library Fee	Total
1	\$250.00	\$30.00	\$14.00	\$50.00	\$29.00	\$6.00	\$6.00	\$41.00	\$1.00	\$28.00	\$3.00	\$458.00
2	500.00	60.00	28.00	50.00	29.00	12.00	6.00	41.00	1.00	28.00	6.00	761.00
3	750.00	90.00	42.00	50.00	29.00	18.00	6.00	41.00	1.00	28.00	9.00	1064.00
4	1000.00	120.00	56.00	50.00	29.00	24.00	6.00	41.00	1.00	28.00	12.00	1367.00
5	1250.00	150.00	70.00	50.00	29.00	30.00	6.00	41.00	1.00	28.00	15.00	1670.00
6	1500.00	180.00	84.00	50.00	29.00	36.00	6.00	41.00	1.00	28.00	18.00	1973.00
7	1750.00	210.00	98.00	50.00	29.00	42.00	6.00	41.00	1.00	28.00	21.00	2276.00
8	2000.00	240.00	112.00	50.00	29.00	48.00	6.00	41.00	1.00	28.00	24.00	2579.00
9	2250.00	270.00	126.00	50.00	29.00	54.00	6.00	41.00	1.00	28.00	27.00	2882.00
10	2500.00	300.00	139.00	50.00	29.00	60.00	6.00	41.00	1.00	28.00	30.00	3184.00
11	2750.00	330.00	139.00	50.00	29.00	66.00	6.00	41.00	1.00	28.00	33.00	3473.00
12	3000.00	360.00	139.00	50.00	29.00	72.00	6.00	41.00	1.00	28.00	36.00	3762.00
13	3250.00	390.00	139.00	50.00	29.00	78.00	6.00	41.00	1.00	28.00	39.00	4051.00
14	3500.00	420.00	139.00	50.00	29.00	84.00	6.00	41.00	1.00	28.00	42.00	4340.00
15	3750.00	450.00	139.00	50.00	29.00	90.00	6.00	41.00	1.00	28.00	45.00	4629.00
16	4000.00	480.00	139.00	50.00	29.00	96.00	6.00	41.00	1.00	28.00	48.00	4918.00
17	4250.00	510.00	139.00	50.00	29.00	102.00	6.00	41.00	1.00	28.00	51.00	5207.00
18	4500.00	540.00	139.00	50.00	29.00	108.00	6.00	41.00	1.00	28.00	54.00	5496.00
19	4750.00	570.00	139.00	50.00	29.00	114.00	6.00	41.00	1.00	28.00	57.00	5785.00
20	5000.00 <sup>2</sup>	600.00 <sup>2</sup>	139.00	50.00	29.00	120.00 <sup>2</sup>	6.00	41.00	1.00	28.00	60.00	6074.00

<sup>1</sup>Formerly General Use Fee (GUF)

<sup>2</sup>Add \$250 for tuition, \$30 for tuition-SB 1907, \$3 for library fee and \$6 for computer service fee for each hour over 20. All other fees remain the same. Non-resident students on competitive academic scholarship of \$1000 or more may be eligible for in-state tuition.

SUMMER TERM 1999  
(per term)

Hrs	Tuition	<sup>1</sup> Tuition SB 1907	Stu Serv Fee	Stu Ctr Fee	Bus Fee	Comp Serv Fee	Stu Pub Fee	Rec Sports Fee	Inter- nat'l Fee	Med Ser Fee	Library Fee	Total
1	\$250.00	\$30.00	\$14.00	\$25.00	\$14.50	\$6.00	\$6.00	\$20.50	\$1.00	\$14.00	\$3.00	\$384.00
2	500.00	60.00	28.00	25.00	14.50	12.00	6.00	20.50	1.00	14.00	6.00	687.00
3	750.00	90.00	42.00	25.00	14.50	18.00	6.00	20.50	1.00	14.00	9.00	990.00
4	1000.00	120.00	56.00	25.00	14.50	24.00	6.00	20.50	1.00	14.00	12.00	1293.00
5	1250.00	150.00	69.50	25.00	14.50	30.00	6.00	20.50	1.00	14.00	15.00	1595.50
6	1500.00	180.00	69.50	25.00	14.50	36.00	6.00	20.50	1.00	14.00	18.00	1884.50
7	1750.00 <sup>2</sup>	210.00 <sup>2</sup>	69.50	25.00	14.50	42.00 <sup>2</sup>	6.00	20.50	1.00	14.00	21.00	2173.50

<sup>1</sup>Formerly General Use Fee (GUF)

<sup>2</sup>Add \$250 for tuition, \$30 for tuition-SB 1907, \$3 for library fee and \$6 for computer service fee for each hour over 7. All other fees remain the same. Non-resident students on competitive academic scholarship of \$1000 or more may be eligible for in-state tuition.

## Fees for Special Courses - Fall 1998-Spring 1999

(In addition to Registration Fees)

Individual course fees range from \$5 to \$128. The average freshman taking a 16 hour load should expect to pay course fees of approximately \$68. A complete list of individual course fees is published in the Schedule of Classes.

### Other Special Fees

(In addition to Registration Fees)

Admission Application Fee .....	25.00
Admission/Evaluation Fee for International Students .....	50.00
Auditing Fee (same as if course were taken for credit)	
Certificate Fee (Payable when applying for certificate)	
Provisional (permanent).....	10.00
Professional .....	10.00
Correspondence Instruction (three-hour course) .....	171.00
(pro-rata portion of fee charged for each additional hour)	
Fee for extension of Correspondence Course .....	35.00
Deficiency Plan Fee	
First deficiency plan at one of either the elementary or .....	40.00
secondary level with a maximum of two teaching fields or	
specializations at the level chosen	
Each subsequent plan for each additional teaching.....	25.00
level or teaching field or specialization	
Delinquent Installment Fee .....	15.00
Evaluation of Foreign Credentials (when applying for admission).....	50.00
Extension Instruction (per course/student) .....	100.00-250.00
Graduation Processing Fee .....	20.00
Installment Service Fee.....	10.00
Late Registration Fee .....	10.00
Musical Instrument Maintenance Fee .....	30.00
Musical Instrument Insurance Fee .....	5.00
Non-U.S. Citizens Fee (for special services) .....	50.00
Pedagog Fee.....	30.00
Physical Therapy Application Fee .....	20.00
Reinstatement Fee.....	50.00
Residence Hall Deposit.....	100.00
Returned Check Fee.....	25.00
Schedule Change Fee (maximum*) .....	10.00
Special Late Registration Fee .....	50.00
Transcript Fee (official copy) .....	5.00
Student Health Center Fee for Overdue Accounts .....	5.00

\*A fee of \$2.00 will be charged for each change of schedule of a student after the schedule has been filed during the normal registration add/drop process. A drop fee of \$10.00 will be charged for each drop thereafter.

**Room Deposit.** A deposit of \$100.00 is required to apply for a room in a residence hall. It is retained as a deposit against damage or late cancellations. A reservation may be canceled and the deposit refunded upon request as long as all criteria are met within the housing contract. Students should contact Residence Life, Room 380, JC Kellam Building, (512) 245-2382, for more information.

**Property Deposit.** Every student must make a property deposit to protect the University from damage to or loss of University property. Charges for damages are billed directly to the student or collected by the department. Failure to pay the charges promptly will cause the student to be barred from re-admission and from receiving official transcript. If a student withdraws without paying the charges, the deposit is held until all charges and fines are received from the various department. This deposit, less outstanding charges will be returned upon request to the student graduating or withdrawing from school.

Deposits not requested within four years from date of last attendance are forfeited into a student deposit scholarship account.

**Laundry Service Fees for Physical Education Uniforms.** Students enrolled in Physical Education courses (PE and PFW) which require uniforms pay a fee of \$14.00 per long semester and \$7.00 per summer term. Students taking more than one uniform-required course pay only one such fee. Individuals not enrolled in physical education courses (PE and PFW) who wish to use the University's uniforms pay the following fees:

Students	\$14.00 per long term
	7.00 per summer term
Faculty, staff, or spouse of faculty or staff	40.00 per twelve months
	15.00 per long term



	5.00 per summer term
Children of faculty or staff	
18 years of age or younger	10.00 per long term
	5.00 per summer term

**Campus Parking/Vehicle Registration Fee.** Every Student, Faculty, and Staff person (SWTexan) who operates or parks a vehicle on campus must: 1) register the vehicle at Parking Control Services (PCS); 2) purchase a permit; 3) properly display the permit anytime the vehicle is parked on campus; and 4) become familiar with and abide by the Traffic and Parking Rules. The rules are enforced at all times throughout the year. The purchase of a permit and registration of the vehicle does not guarantee a parking space. Residence Hall students must first make application with the Residence Life Office (RL) before bringing a vehicle to campus. Residence Hall parking spaces are limited, and it is recommended that on-campus residents not bring a vehicle to campus unless absolutely necessary.

Fees for vehicle registration will be published each year in the Schedule of Classes and in the official rules and regulations. Commuters may request that their permit be mailed. Requests should include a self-addressed stamped envelope, vehicle registration card, and appropriate fee (if not paid through registration). Resident Hall students who file the requested vehicle information with the RL before August 1 (for the fall semester) may pick up their permit at their residence hall during check-in.

Additional information concerning the purchase and issuance of parking permits may be obtained by contacting Parking Control Services at 512-245-2887.

**International Student Health Insurance Fee.** All nonimmigrant international students enrolling at SWT are required to carry health insurance. The fee for the SWT International Student Health Insurance Plan is automatically added to the fee bill at the time of registration. International students who wish to have this fee waived must present proof of comparable insurance (including major medical, evacuation and repatriation) to the Student Health Center for approval prior to each registration. Appointments are required for waivers and may be obtained by calling 245-2161.

## Room and Board Fees

The room and board rates shown are on a per-student, per-semester basis, two students per residence hall room. Rates include state sales tax on meals. Five meal plans are available for residence hall students during the long semesters:

- (1) 100 Block Plan+125 Paw Points - 100 entries in any resident dining hall during the semester plus \$125 value of Paw Points to spend at any participating food service location.
- (2) 150 Block Plan+100 Paw Points - 150 entries in any resident dining hall during the semester plus \$100 value of Paw Points to spend at any participating food service location.
- (3) 200 Block Plan+75 Paw Points - 200 entries in any resident dining hall during the semester plus \$75 value of Paw Points to spend at any participating food service location.
- (4) 250 Block Plan - 250 entries in any resident dining hall during the semester.
- (5) \$400 Pawpoints Plan - Available for Arnold Residents only. This plan includes \$400 value of pawpoints to be used at any participating food service location. Unused portion does not carry over to another semester.

*Two meal plans are available for residence hall students during the summer terms:*

- (1) 7/15 Plan-7 day any 15 meals in any resident dining hall with transferability options.
- (2) \$200 Pawpoints Plan-allows \$200 value of pawpoints to be used in any participating food service location per summer term.

All meal plans are good for one semester only. Changes to the meal plan for the fall semester must be made by Friday, September 11, 1998. Any changes after this date must be made by special approval from Residence Life. Non-resident hall students may purchase any of the meal plans available to residence hall students except for the Arnold Hall plan. Individual meals may be purchased on a cash basis in any of the cafeterias.

Room and board is computed on a semesterly basis and may be paid in full at registration or in installments during the long semesters only. If the three installment method is chosen, the first one-half payment is due at registration, one-fourth payment is due prior to the start of the 6th class week, and the final one-quarter payment is due before the beginning of the 11th class week. Payment for Summer room and board is required in full at the beginning of each summer term or semester (i.e., Summer I, Summer II).

**The University reserves the right to increase or decrease the room and board rates on 30 days notice.** All residence halls will be closed during the Thanksgiving and Spring holidays and between semesters; however, the University may choose to keep some of the halls open during the break for an additional room charge.

## Room and Board Rates

### Fall 1998-Spring 1999

	2 persons RM&Board	1 person RM&Board
100 Block +125		
A/C	1,996.00	2,596.50
Non A/C	1,555.00	1,935.00
Suites	2,163.00	2,847.00
College Inn	2,339.00	3,111.00
Blanco Hall	2,471.50	3,310.00
150 Block +100		
A/C	2,020.00	2,620.50
Non A/C	1,579.00	1,959.00
Suites	2,187.00	2,871.00
College Inn	2,363.00	3,135.00
Blanco Hall	2,495.50	3,334.00
200 Block +75		
A/C	2,060.00	2,660.50
Non A/C	1,619.00	1,999.00
Suites	2,227.00	2,911.00
College Inn	2,403.00	3,175.00
Blanco Hall	2,535.50	3,374.00
250 Block		
A/C	2,111.50	2,712.00
Non A/C	1,670.50	2,050.50
Suites	2,278.50	2,962.50
College Inn	2,454.50	3,226.50
Blanco Hall	2,587.00	3,425.50
Arnold Hall with paw point plan	1,634.00	2,234.50
San Saba - room only	1,368.00	2,052.00
<b>Per Semester</b>		
Board Only		
100 Block +125		795.00
150 Block +100		819.00
200 Block +75		859.00
250 Block		910.50
<b>Summer 1999</b>		
<b>Per Term</b>		
Air-Conditioned		
Paw Point Plan	641.00	853.50
Traditional-7/15	734.50	947.00
Board Only		
Traditional-7/15		310.00

**Apartments.** University owned apartments are available for students who are eligible to live off-campus. Riverside offers one bedroom units, Comanche Hill offers one and two bedroom units, while Clear Springs offers one, two, three bedroom units. For information concerning: Riverside contact 512/245-7735; Comanche Hill contact 512/245-2435; Clear Springs contact 512/392-3100.

**Refund of Room and Board Fees.** Any student who officially withdraws from the University or who is granted permission to live off campus may receive a refund on the unexpired portion of the room and board payment for the current installment period. The refund will be computed from the date the approved withdrawal card, the meal ticket, and the student's room and board receipt are presented to the Cashier's Office. A matriculation fee of \$5.00 will assessed on any withdrawals prior to the first day of class.

Room and board charges will continue until the student has officially moved from the University residence halls and cleared with the office of the Director of Residence Life. Any refund due will be applied to any unpaid financial obligations with the University. If the refund exceeds any unpaid balance, a refund check will be mailed within approximately 30 days to the permanent address left with Data Entry in the Registrar's Office.

## Installment Policy

### Registration

Tuition/Fees and Room/Board for Summer terms must be paid at the time of registration.

Tuition/Fees and Room/Board may be paid during the Fall and Spring semesters through the following alternatives:

- 1) Full payment is due prior to the beginning of the semester.
- 2) One-half payment of tuition and fees is due prior to the start of the semester, one-quarter payment prior to the start of the sixth class week and the final one-quarter payment before the beginning of the eleventh class week.

An installment method of payment may not be used by students enrolling for courses of shorter duration than a full semester (i.e., second eight-weeks courses) unless he/she enrolls for such courses at regular registration.

If an installment method is chosen at registration, a student may elect to pay his/her account in full at any time.

The following fees are to be paid in full at the time of registration and are not applicable to the installment plan: diploma fee, parking permit, general property deposit, late registration fee, and Pedagog fee. All tuition adjustments will be credited to total tuition/fees, and room/board **BEFORE** calculation of payment plan. All creditable financial aid will be applied **AFTER** the payment plan calculation towards the minimum due payment.

**Installment Payments.** A service charge of \$10 will be collected at the time of each installment payment, excluding the payment made at registration.

Students will be responsible for making their installment payments on a timely basis at the Cashier's Office. Periodic billing statements will be sent to the student's local address. The bill will reflect financial transactions with the Cashier's Office. If a student has a question about the due date or amounts due, he should contact the Cashier's Office at 245-2546 or call CATS at 392-2287 and select option 30.

Payments mailed or placed in the depository drop located on the outside north wall of the J.C. Kellam Building will be accepted under the following conditions:

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\*Payment must be received in the Cashier's Office, during normal office hours, on or before the due date.

\*Payment must be for the total amount due, including the service charge.

\*Failure to pay an installment by the due date may result in a student's ID being invalidated. There will not be any refund for meals missed during the time the ID is invalid.

### Delinquent Payments

- A delinquent charge of \$15 will be assessed the first day after the installment due date.
- Failure to pay an installment by the due date may result in a student's ID being invalidated. There will not be any refund for meals missed during the time the ID is invalidated.
- Under Texas Higher Education Code 54.007, a student's failure to make full payment prior to the end of the semester (the last regular class day of the semester) may result in the student's not receiving credit for the work done that semester.
- Such a student will not be allowed to register for future semesters until the delinquent amount, including service charges is paid.
- Any installment payment made with a check returned by the bank unpaid for any reason other than an error by the bank may result in a delinquent payment penalty of \$15 in addition to the existing \$25 returned check penalty currently being charged.

### Refunds

Refunds from the add/drop process will be credited to unpaid financial obligations. Additional fees incurred from the add/drop process will be billed to the student's local address.

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

### Withdrawals

Any student who has paid registration fees and officially withdraws by submitting a withdrawal card to the Registrar's Office, J.C. Kellam, Room 111, is entitled to a refund of tuition and fees if the following condition is met: the amount actually paid, either in full or installment, must be greater than the percentage of total semester's charges owed the university at the time of withdrawal. The amount of refund is calculated as follows: (amount paid for tuition & fees) minus (semester charge for tuition & fees times percentage owed) equals (refund, if positive amount). If the percentage of total charges owed the university at the time of withdrawal exceeds the amount actually paid, the student remains liable for the unpaid balance. A schedule of the percentage owed the university is shown below.

<i>Full Semester Withdrawals (Fall/Spring)</i> .....	<i>Owed</i>	<i>Refunded</i>
Prior to the first class day .....	..\$15.00*	100%    -\$15.00

Class days 1-5 .....	20%	80%	
Class days 6-10.....	30%	70%	
Class days 11-15 .....	50%	50%	
Class days 16-20.....	75%	25%	
After class day 20 .....	100%	0%	
<i>First Half or Second Half Withdrawals</i>			
Prior to the first class day .....	\$7.50*	100%	-\$ 7.50
Class days 1-3 .....	20%	80%	
Class days 4-6.....	50%	50%	
After class day 6 .....	100%	0%	
<i>Summer I or II Withdrawals</i>			
Prior to first class day .....	\$7.50*	100%	-\$ 7.50
Class days 1-3 .....	20%	80%	
Class days 4-6.....	50%	50%	
After class day 6 .....	100%	0%	

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\*Matriculation fee

**Drops.** Should a student reduce semester hours by officially dropping a course or courses, the following refund rates will apply, provided the student remains enrolled at SWT and pays the required drop fee.

*Full Semester Drops (Fall/Spring)*

During first 12 class days.....	100%
After 12th class day .....	NONE

*First Half or Second Half Drops*

During first 4 class days.....	100%
After 4th class day .....	NONE

*Summer I or II Drops*

During first 4 class days.....	100%
After class day 4 .....	NONE

An immediate refund will not be made at the time a student withdraws or reduces hours during a semester. Any refund will be applied to the remaining unpaid obligations. If a student has paid in full, upon request a check will be mailed within 30 days. A drop refund check will be mailed to the student's local mailing address. No refunds will be made when the amount is less than \$5.00. Reducing semester credit hours to zero is considered a withdrawal, and withdrawal refund policies apply.

## Other Fee Information

**Refunds in the Event of Death.** If a student dies and a refund of tuition, fees, room and board, deposits, or other monies is due the estate of the deceased student, the university will presume that the person most recently indicated by the student as next-of-kin on official university records is to be the recipient of all refunds. The university will, as soon as practicable after the death of the student, pay all refunds due to the designated next-of-kin unless the student has specifically designated in writing to the Registrar the name and address of another person to be the recipient of such refunds.

**Student's Financial Obligations.** Students are expected to meet financial obligations to the university within the designated time allowed. Registration fees are payable before classes begin. Students are not entitled to enter class, or laboratory, until their fees and deposits have been paid. Failure to pay the amount owed in the allotted time, or payments made with checks that are returned to SWT\ unpaid by the bank, may result in any or all of the following: (1) dismissal from the university, (2) withholding of future registration privileges, (3) withholding the issuance of grades or of an official certified transcript, (4) withholding the conferring of a degree, (5) invalidation of meal card, (There will not be any refund for meals missed during the time the ID is invalidated), (6) bar against re-admission for the student.

Once a student registers, he or she is responsible for the total fees assessed regardless of whether the installment option is used. Refund percentages are applied to total fees assessed and not the amount paid. This means that students who withdraw before paying all installments may, in the event of withdrawal, receive a bill with a balance due rather than a refund.

**Fees for Summer Offerings Other Than the Traditional Six-Week Terms.** The tuition and fees credit hour rate for any course of less than six-weeks duration will be the same as the tuition and fees credit hour rate for the traditional six-week term. The tuition and fees credit hour rate for any term of more than six-weeks duration will be the same as the tuition and fees credit hour rate for a regular semester of the school year.

**Tuition Limit in Cases of Concurrent Enrollment.** Students enrolled at two state colleges or universities during the same semester may be eligible for reduced tuition charges at the second institution. Students must register at the institution with the lowest tuition rate first. Students must supply the original student copy of the paid receipt showing number of hours and amount paid for tuition at the first institution before paying fees at the second institution. University policy does not allow for refunds, as the law specifies that concurrent enrollment adjustment be made at the time of registration.

## **Roy F. and Joann Cole Mitte Endowed Scholarships**

### **Roy F. and Joann Cole Mitte Endowed Chairs**

Alumni Roy F. and Joann Cole Mitte (pictured above) have established a \$12.5 million scholarship endowment as part of the SWT Centennial Cam-paign. This gift provides 125 Southwest Texans with \$5,050 scholarships each year. They have also established a \$5 million endowment to support five endowed chairs in various academic areas.

# **ACADEMIC POLICIES**

**Academic Honesty Statement**

**Registration**

**Texas Legislative Requirements**

**Academic Regulations**

**Probation and Suspension**

**Degree and Graduation Policies**

**Academic Honors**

## ACADEMIC POLICIES

This section of the catalog contains information about the university's general academic policies. All SWT students should review this information carefully when they enter the university. The information is divided into the following sections: (1) Registration, (2) Texas Legislative Requirements, (3) Academic Regulations, (4) Probation and Suspension Regulations, (5) Degree and Graduation Policies, (6) Academic Honors.

### Academic Honesty Statement

Learning and teaching take place best in an atmosphere of intellectual freedom and openness. All members of the academic community are responsible for supporting freedom and openness through rigorous personal standards of honesty and fairness. Plagiarism and other forms of academic dishonesty undermine the very purpose of the university and diminish the value of an education. Specific sanctions for academic dishonesty are outlined in *SWTexan*.

### Registration

**Schedule of Classes.** The Schedule of Classes contains CATS registration instructions, dates, and fee schedules, as well as a list of classes offered, meeting days and times, and locations. Also included are instructions on dropping a class or withdrawing, refund schedules, final exam schedules and other information that will be needed throughout the semester.

**Academic Advising.** The University encourages all students to seek academic advising before each registration and at other times when academic questions arise. In some departments and for some students, this advising may be mandatory. Students in the Undeclared program are advised through the College of General Studies, others through their major department and/or in the appropriate school advising center. Advisers help students understand academic requirements and plan schedules to meet those requirements as well as address the choice of majors and career preparation issues.

**Correct Data.** The student is responsible for making certain the University has correct demographic data. Changes in name, local and permanent address and phone number, marital status, etc. should be reported immediately to the Registrar's Office if an undergraduate student, or the Graduate Office if a graduate student. The University is not responsible for correspondence credits due to unreported name changes.

**Privacy Act of 1974.** The Family Educational Rights and Privacy Act of 1974 protects the privacy of educational records, establishes the right of students to inspect and review their educational records, and provides guidelines for the correction of inaccurate or misleading data. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office concerning alleged failures by the university to comply with the Act. University policy explains in detail the procedures to be used in complying with the act. The policy is printed in the Schedule of Classes distributed by the Registrar's Office at the beginning of each semester. The policy is also contained in UPPS 07.08.01, "Access to Individual Student Data and Academic Records" and UPPS 01.04.31, "Access to Student Records Pursuant to the Family Educational Rights and Privacy Act of 1974," available in the Learning Resources Center. The Dean of Students and the Registrar both presume that each student is independent of his or her parents when dealing with the student's educational records. Procedures for establishing dependency status are available in both offices.

**Undergraduate Student Classification.** Classification is based on cumulative hours passed (not counting hours currently enrolled.)

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

**Course Numbers.** Courses listed in this catalog and in the Schedule of Classes follow a four-digit numbering system. The first digit indicates the level of the course: 1-freshman, 2-sophomore, 3-junior, 4-senior, 5 and 6-post-baccalaureate, 7-doctoral. The second digit indicates the number of semester credit hours the course carries. The last two digits usually indicate the location of the course in the department's curriculum. A letter (A, B, C, etc.) attached to a course number indicates an area of concentration within the course. The numbers in parentheses following a course title indicate the clock hours per week spent in lecture and in laboratory, respectively. A course preceded by (WI) is writing intensive.

**Individualized Topic Courses.** When a student registers for an individualized topic course, the instructor and student must agree in writing upon a specific topic or area of study. A copy of the agreement must be filed in the departmental or division office.

### Texas Legislative Requirements

**Texas Academic Skills Program (TASP).** The main component of this program is a test that measures skills in mathematics, reading and writing. Beginning with the fall semester of 1998 all students, except those who are TASP Exempt, should take the TASP Test before their first semester in college at a Texas public institution of higher education. Students with the disabilities who need reasonable accommodations should refer to the section of the TASP Registration Bulletin dealing with Special Testing Accommodations. Deaf students who are not TASP Exempt should take the Stanford Achievement Test, Advanced 2 Level, instead of the TASP Test.

Some students are exempt from this test requirement. A student will be identified as "TASP Exempt" when SWT has received official proof that he or she satisfies any one of the following:

1. earned a Bachelor's degree from a school whose accreditation is recognized by SACS (Southern Association of Colleges and Schools);
2. passed 3 or more hours of college work before 9/1/89 from a school whose accreditation is recognized by SACS;
3. earned a composite score of at least 23 on a recent ACT test with at least 19 on each of the English and Mathematics parts ( ACT scores used for TASP Exemption must come from the same test date and that test can be no more than 5 years old.);



4. earned a Verbal plus Mathematics total of at least 970 on a recent SAT Test, taken before 3/31/95, with at least 470 on the mathematics part and at least 420 on the Verbal part OR earned a Verbal plus Mathematics total of at least 1070 on a SAT Test, taken after 3/31/95, with at least 500 on each of the two parts (SAT scores used for TASP Exemption must come from the same test date and the test can be no more than 5 years old.);
5. passed each part of the Exit Level TAAS test on the first attempt and scored at least 1770 on the Writing part, at least X-89 on the Reading part and at least X-86 on the Mathematics part (TAAS scores used for TASP Exemption can be no more than 3 years old.);
6. is deaf or blind and passed 3 or more hours before 9/1/95 from a school whose accreditation is recognized by SACS.

The Office of Admissions should receive your transcript and ACT or SAT or TAAS scores. The Office of Disability Services should receive the necessary documentation that the student is deaf or blind. The Office of Remediation Services may also receive TAAS scores. *Any student exempt by reason 1, 2 or 6 may still need to take the TASP test if the student is in a degree program that includes teacher certification.*

If a student fails one or more parts of the TASP Test, that student will be required to be in a developmental program in at least one of the areas failed, every semester that the student is in school (including summer sessions or mini sessions) until all parts of the TASP Test are passed. A student with a failing TASP score may not take any 3000 or 4000 level classes if the hours that student has earned plus the 3000 or 4000 level hours that student is trying to take add up to a number 60 or higher.

It is now possible to pass the TASP Test by earning grades of A or B in certain courses. There are conditions to be met. A student must fail a part of the TASP Test, complete a developmental program in that area and fail that part of the TASP Test again. If the area was writing and the student earns an A or B in English 1310 or 1320, then the student has passed writing. If the area was mathematics and the student earns an A or B in Mathematics 1315 or 1317, then the student has passed mathematics. If the area was reading and the student earns a grade of A or B in: English 2310, 2320, 2330, 2340, 2359, 2360; History 1310 or 1320; Political Science 2310 or 2320; or Psychology 1300, then the student has passed reading.

If you are an incoming student and you have taken the TASP Test and SWT does not have your scores, then go to the Office of Remediation Services. For all questions about TASP or TASP Exemptions call the Office of Remediation Services at (512) 245-3942.

**Requirements in History and Political Science.** Texas law requires that every student graduating from a state-supported college or university must take six semester hours of American history and six semester hours of American government.\* Both of these requirements are included in the university's general studies program.

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\*According to current law, up to three semester hours of credit in a junior or senior ROTC course may be applied to the history requirement and up to three hours to the government requirement.

## Academic Regulations

**Catalog Designation.** The catalog designation a student receives when entering SWT determines the curriculum and other academic policies that apply to the student. Catalog designations are made according to the following guidelines:

1. Students with no prior college work are assigned to the current catalog.
2. Students with prior college work:
  - a. Students with prior college work from Texas senior or out-of-state institutions are assigned to the current catalog.
  - b. Students with college work during the last six years, solely from Texas junior colleges, are assigned to the SWT catalog which was in effect at the time of the student's initial junior college enrollment.
3. Former SWT students (those who leave for one or more long semesters and apply for readmission).
  - a. Former students whose initial SWT enrollment was more than six years ago are assigned to the current catalog.
  - b. Former SWT students whose initial SWT enrollment was within the last six years and who have completed fewer than 30 hours of college work elsewhere during the interim retain their initial SWT catalog designation.
  - c. Former SWT students whose initial SWT enrollment was within the last six years and who have completed 30 or more hours of college work elsewhere during the interim are assigned to the current catalog.
4. An academic school dean may change the catalog designation.

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

*Fall or Spring Semester:* Those enrolled for 12 or more credit hours are considered full-time students. An average load for a student with a 2.00 or higher GPA is 15-17 credit hours; however, if such a student is enrolled in only five courses, as many as 18 credit hours is also considered an average load. Graduating seniors or students with a 3.00 or higher GPA may carry 19 credit hours. Those with a 3.75 or higher GPA may carry up to 22.

*Summer Terms:* The usual summer load is 6 credit hours per term. Students in good standing may take eight hours during a summer term without needing their dean's approval. These limits do not include credit earned in the summer mini-term.

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

**Class Attendance.** The university expects students to attend every scheduled class meeting. General requirements for class attendance are as follows:

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

4. Failure to meet the attendance requirements in a course may lower a grade.

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

The deadline for dropping classes or withdrawing from the university is two weeks preceding the beginning of final examinations during the fall and spring semesters, one week preceding final examinations during the summer sessions. Special deadline dates will be enforced for courses offered in a shortened format. When a student drops one or more classes or withdraws from the university, either a "W" grade (withdrawn passing) or an "F" grade (failing) will be assigned for each course as follows:

1. A "W" grade will be assigned automatically if a student officially withdraws from the university or officially drops one or more classes on/before the 12th class day during fall and spring semesters and 4th class day during summer sessions. This period shall be designated as the automatic "W" period.
2. After the automatic "W" period, faculty assign grades to students who officially drop classes or withdraw from the university. Faculty assign the "W" grade only to those students who have a passing average at the time the drop/withdraw action is officially completed. Otherwise, faculty assign the "F" grade.

**Grade Reports.** Semester grades are based on the student's written or oral work in a given course. Attendance may also affect the grade. Final grade reports are issued by the Registrar via the CATS Telephone system at the end of each regular semester and summer session. Students may request a grade mailer at the time they call to hear their grades. Time periods for requesting grade mailers will be printed in the schedule of classes. Automatic grade mailers will be sent to the following groups: PAS, Conditional Admissions, International Students, Probation/ Suspension Students, and Athletes. Mid-term grade reports are issued in regular semesters if the student is enrolled in a freshman or sophomore course and is earning a grade of D or F.

**Grade Symbols.** Grades at SWT are indicated by the following symbols: **A**-excellent; **B**-good; **C**-average; **D**-passing; **F**-failing or withdrawn failing; **CR**-credit. A grade of **PR** which is temporary and non-punitive, may be assigned in selected courses where the required clock hours needed to complete requirements extend beyond the regular semester or summer session. The **I** grade may be assigned when due to unusual circumstances beyond the student's control a significant portion of a course, such as a term paper or final examination, has not been completed. If a student needs to repeat a course or a significant portion of a course, a "W" or "F" grade should be assigned according to regulations governing the assignments of such grades. A "W" grade cannot be assigned if the student has not officially dropped the course within the semester deadlines. An **I** grade from SWT will not count as hours attempted until another grade is assigned with the **I**. Twelve months after an SWT **I** grade is assigned, it will automatically change to an **IF** if the course work has not been completed. An **I** grade transferred from another institution will also convert to an **IF** after one calendar year. A grade of **W** is assigned if a student drops a course by the Automatic "W" Drop/Withdrawal Deadline (see Official University Calendar, page 5-6). After the Automatic "W" Drop/Withdrawal Deadline, an **F** or **W** will be assigned depending on whether the student is passing (W) or failing (F) the course at the time the drop/withdrawal action is officially completed.

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

The SWT GPA for all work attempted at SWT is used to determine whether a student is meeting minimum academic standards. **Beginning in the fall of 1991**, this SWT GPA will be calculated by the procedures described in the section titled "Repeating Courses" (see below).

**Transcripts.** Effective fall 1991, SWT transcripts will separate transfer course work from SWT course work. Transfer work listed chronologically will be listed first and will show the number of hours transferred; no transfer GPA will be printed. SWT course work listed chronologically will follow any transfer course work. The transcript will show SWT hours attempted, SWT hours passed, SWT grade points and SWT GPA.

Courses taken at other schools will not be included in the grade-point average at SWT. SWT GPA will be the only GPA calculated.

**Repeating Courses.** Effective fall 1991, a student may repeat a course, but cannot receive credit for the course more than once unless the course description in the catalog specifically provides that the course may be repeated for credit. When a course is repeated more than once, the second grade (first repeat) and all subsequent grades (repeats) are included in computing the SWT hours attempted, grade-points earned and GPA. "W" and "I" grades are excluded. A course taken at SWT must be repeated at SWT to be counted as a repeat. A course taken for transfer credit must be repeated as transfer credit to count as a repeat.

The first time that a course is repeated, Fall 1991 or after, it will be calculated as if it were the first repeat of the course. Any additional repetitions will be counted as second or greater repeats.

If the last grade in a repeated course is lower than an earlier grade, the last grade is used to determine whether the course fulfills university requirements.

Courses repeated prior to fall 1991 will follow the repeat policy enforced at the time the courses were taken. Prior to fall 1991, the last grade of a repeat counts, W and I grades excluded. If the last time a course is taken is from another school, that course will meet degree requirements, but the last grade at SWT counts towards the SWT GPA.

**Change of Grade.** An individual course grade may be changed when the involved faculty member certifies to the registrar that an error was made in computing the original grade. The grade change must be approved by the department chair and the appropriate school dean. Students who wish to protest a grade earned in a course should first discuss the grade with the instructor. If no resolution is reached, the student may appeal the grade to the department chair. If no satisfactory conclusion can be reached at this level, the student may appeal to the school dean whose decision is final.

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

## Probation and Suspension

**Minimum Academic Standards.** Students must meet minimum academic standards in work completed at SWT. Those who fail to do so are placed on academic probation or academic suspension, as appropriate. In determining whether a student is placed on probation or suspension, only grades earned at SWT will count.

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

Students placed on academic probation must raise their SWT GPA during the first probationary semester, e.g., if a student is placed on academic probation because the SWT GPA has fallen to 1.85, at the end of the first probationary semester the SWT GPA must be 1.86 or higher, or the student will be placed on first academic suspension. If the student raises the SWT GPA at the end of the first probationary semester, but it is still less than 2.00, the student may continue for a second probationary semester. If the SWT GPA is still less than 2.00 at the end of the second probationary semester, the student will be placed on first academic suspension.

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

Unless other special conditions are imposed by the dean or the Suspension Appeals Committee, students granted reinstatement and re-admitted on academic probation, must raise their SWT GPA at the end of the first probationary semester or be placed on academic suspension. If students raise their SWT GPA at the end of the first probationary semester, but it remains below 2.00, they may continue their studies for a second probationary semester. Students must raise their SWT GPA to at least 2.00 by the end of the second probationary semester, or they will be placed on second academic suspension.

In addition to any special conditions imposed by the dean or the Suspension Appeals Committee, students must meet the conditions under "Academic Probation" explained above. At the end of the second probationary semester, if the SWT GPA is less than 2.00, the student will be placed on second academic suspension.

Students who are placed on first academic suspension from SWT at the end of the spring semester will be reinstated by the registrar on first-semester probation for the following fall semester if they (1) attend both summer terms at SWT, (2) pass nine semester hours, and (3) earn a 2.00 GPA on all work attempted in both terms or the student will be removed from probation if the SWT GPA is 2.00 or greater at the end of the second summer term.

**Readmission Following a First Academic Suspension.** Students who re-enter the university following an academic suspension do so on academic probation. For specific regulations, refer to paragraph on "Academic Probation" on the previous page. If the SWT GPA is not raised at the end of the first probationary semester, or is less than 2.00 at the end of the second probationary semester, the student will be placed on second academic suspension.

**Policies Governing Second Academic Suspension.** Students who fail to meet the minimum academic standards defined above will be placed on academic suspension for a second time, for a period of two calendar years. If there are extenuating circumstances, students may appeal prior to the Monday of registration week to the appropriate school dean for reinstatement. If reinstatement is denied, students may then appeal to the Suspension Appeals Committee. If the appeal is approved, students may return to SWT on academic probation, subject to special conditions imposed by the dean or the Suspension Appeals Committee regarding course load limits, work load limits, counseling, etc. If reinstatement is allowed, the suspension notation will remain on the student's transcript, which will also show "Reinstated for \_\_\_, Enters on Academic Probation." In addition to any special conditions imposed by the dean or the Suspension Appeals Committee, students must meet the conditions under "Academic Probation" explained previously. At the end of the second probationary semester, if the SWT GPA is less than 2.00, the student will be placed on academic suspension.

**Readmission Following a Second Academic Suspension.** At the end of the two-year period for a second academic suspension, students may apply for re-admission to SWT.

**Effect of Suspension on Correspondence or Extension Courses.** While on suspension, students may complete a correspondence course in which they enrolled prior to suspension. Students may not enroll in an extension or correspondence course from the university while on suspension.

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

**Exceptions.** Cases in which the circumstances are not covered by the above regulations shall be handled at the discretion of the Director of Admission and the school dean.

## Degree and Graduation Policies

**Application for Degree Outline.** After completing 45-60 semester hours, students should request a degree outline through the school advising center. When the outline is approved by the appropriate school dean, it will list all courses required for graduation. The outline should be used to determine which courses to take at each registration. Students receiving Veteran Administration Educational Assistance must provide the Office of Veteran Affairs with a copy of the degree outline in the semester following completion of 45-60 semester hours or completion of the core curriculum, whichever occurs first. The outline must be supplied before the student requests certification for subsequent semesters.

**Application for Degree Summary.** After completing all but 30 semester hours of the prescribed degree outline, the student must apply for a degree summary from the appropriate school dean or advising center. The summary will list the courses remaining to be taken as well as grade-point averages in all courses taken at SWT and in the major and minor fields of study. If any of the GPA's are below the minimums required for graduation, the summary can be used in deciding how to raise the averages in the remaining course work.

**Application for Degree.** Students must indicate their intent to graduate during registration for their last semester (Summer Session I for August graduation). A \$20.00 Graduation Processing Fee must be paid along with the usual registration fees. The student must also complete the degree application in the office of the appropriate school dean or advising center. If a student fails to complete the required courses in time for a planned graduation, the student must reapply for the next graduation. Failure to apply for graduation on time may require the issuance of a statement of completion and may delay the awarding of the diploma until the following graduation. **Because of the problem of receiving official transcripts in a timely fashion, students taking off-campus courses in their final semester should delay their application for graduation until the following semester.** Graduation eligibility in any given semester is determined one day prior to graduation. Therefore, official transcripts of all transfer course work applied to a degree must be received in the Admissions Office not later than one day prior to graduation.

**Residency Requirements.** To qualify for graduation with a bachelor's degree, a student must have been in residence at SWT for at least two long (fall or spring) semesters or 30 weeks in summer terms. A student must also complete at least 30 semester hours of work at SWT (at least 24 semester hours of which must be advanced). Additionally, 24 semester hours of the last 30 hours offered toward graduation must be taken at SWT. At least six hours of the advanced work included in the major or in the first teaching field must be done in residence.

**Minimum Grade Requirements for Graduation.** Before graduating from SWT, students must satisfy the following minimum grade requirements:

*Degrees without Teacher Certification* (SWT minimums; individual departments may have higher requirements listed later in this catalog):

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

*Degrees with Teacher Certification* (minimums):

1. An SWT GPA of 2.50.
2. Successful completion of student teaching
3. A grade of C in English 1310 and 1320, or their equivalents
4. A grade of C in Math 1315 or 1319, or their equivalents (Interdisciplinary Studies Majors only)
5. A grade of C in each course in the assigned professional education sequence
6. A grade of C in the first and/or second teaching fields for secondary education students or in the specialization(s) and/or majors for elementary education students.

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NOTE: Passing scores on the Examination for the Certification of Educators in Texas (EXCET) required for teaching certificate.

**Maximum Elective Hours in Courses for the Major or Minor.** No more than six semester hours within a major or a first teaching field may count as electives after the minimum requirements of the major or teaching field are fulfilled. Likewise, no more than six semester hours may be counted as electives in a minor or second teaching field once the minimums have been met. Approval of elective credit beyond these maximums must be granted by the appropriate school dean.

**Requirements for a Second Bachelor's Degree.** A second bachelor's degree may be earned by completing a minimum of 30 additional semester hours as recommended by the Chair of the student's major department and subject to the approval of the appropriate School Dean. Students earning second bachelor's degrees subsequent to receiving the first bachelor's degree are not eligible for graduation with honors. Residency requirements (as indicated above) apply except that the advanced semester hours required are determined by the dean.

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

**Requirements for Dual Bachelor's Degrees.** If two bachelor's degrees are conferred simultaneously, the student must complete a minimum of 30 hours beyond the requirements of the single degree. Degree outlines and summaries must be filed in the office of each school dean. Graduation will occur when the student has completed requirements for both degrees.

**Requirements for Double Majors.** A student who fulfills the specified requirements for two different major fields authorized under a single degree, prior to graduation, has completed a double major. Both fields are recognized as majors on the student's transcript.

**Time Limit for Earning a Degree.** Students may graduate under the requirements for the degree set forth in the SWT catalog in force during the session in which they first enroll, provided they graduate within six years from the end of the session. Transfer students who have been assigned an SWT catalog based on their first semester at a Texas junior college have six years from the end of the semester upon which their catalog designation was based to graduate, not six years from their initial semester at SWT. After the expiration of such a period of time, students may have to meet requirements outlined in the current catalog. "Requirements for the Degree" refers to the pattern of courses and grade-point averages required for graduation. It does not include other rules and regulations such as probation and suspension criteria, requirements for admission to courses or programs, etc.

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

## Academic Honors

**Dean's List.** To be eligible for the Dean's List at the close of any fall or spring semester, an undergraduate must have earned a minimum GPA of 3.5 in that semester on at least 12 credit hours excluding Correspondence courses. Graduate courses count.

**Graduation with Honors.** Students earning a GPA of 3.40-3.59 will graduate *cum laude*; 3.6-3.79 will graduate *magna cum laude*; 3.8-4.0 will graduate *summa cum laude*. Calculation of the GPA to determine honors status is based on all SWT work applied to the first bachelor's degree, including work completed in the final semester. Transfer students who have earned at least 60 semester hours at SWT are eligible to graduate with honors if their **SWT GPA** meets the above criteria. Students earning second baccalaureate degrees are not eligible for graduation with honors.

The following honor societies are open to qualified SWT students:

**Alpha Chi.** Alpha Chi is a national honor society which promotes academic excellence and exemplary character among undergraduate college and university students and honors those who achieve such distinction. To qualify for membership, a student must be a first-time undergraduate, a junior or senior (having attained no less than 60 credit hours), have a minimum SWT GPA of 3.50 on at least 45 semester hours at SWT. Alpha Chi is the oldest honor society at SWT, founded in 1922. Membership in the honor society is indicated on the student's transcript. Members are also eligible to compete for Alpha Chi scholarships and fellowships. For further information please contact Dr. Paula Williamson at (512) 245-3312 or Dr. Gary Carman, (512) 245-3249.

**Alpha Lambda Delta.** Alpha Lambda Delta is a National Academic Honor Society for Freshmen that honors academic excellence during a student's first year in college. Its purpose is to encourage superior academic achievement among students in their first year in institutions of higher education, to promote intelligent living and a continued high standard of learning, and to assist women and men in recognizing and developing meaningful goals for their roles in society. Membership is open to all freshmen who are registered for a full course of study leading to a bachelor's degree, who achieve a minimum scholastic average of 3.5 (based on grades of the first full semester or on the cumulative average of the first year in college), and who have paid the initiation and lifetime membership fee. Members are eligible to compete for Alpha Lambda Delta awards and fellowships. For further information please contact Dr. Jeffrey Gordon at (512) 245-7952.

**Golden Key National Honor Society.** Golden Key recognizes and encourages scholastic achievement and excellence in all undergraduate fields, supports the faculty and administration in developing and maintaining high academic standards, provides economic assistance by means of annual scholarships, and promotes altruistic conduct through volunteer service to the university and community. The *Golden Key National Honor Society* accepts students who have a minimum cumulative GPA of 3.40, have completed 60 college hours, 25 of which must have been taken at SWT, have filed a Member Data Form, and have paid the initiation and life membership fee. For further information please contact Dr. Lu Montondon at (512) 245-3540.



# COLLEGE OF GENERAL STUDIES

Ronald C. Brown, Ph.D., Acting Dean  
David C. Nelson, Ph.D., Assistant Dean

## Program Directors

Freshman Seminar .....	Jeffrey L. Gordon, Ph.D.
Honors Program.....	Eugene J. Bourgeois, Ph.D.
Student Learning Assistance Center .....	Carol W. Dochen, Ph.D.
Honors Summer Math Camp.....	Max L. Warshauer, Ph.D.

General Studies Curriculum  
General Studies Requirements  
Undeclared Students and Advising  
Transfer Students  
College of General Studies Programs

## COLLEGE OF GENERAL STUDIES

In order to acquire the fundamental skills and cultural background that are the marks of an educated person, all students at Southwest Texas State University complete a program of General Studies which serves as the common foundation for all majors.

Conceptually, the General Studies experience starts with a common integrative Seminar taken by all freshmen, branches out to a series of courses in essential skills and disciplinary perspectives, and then moves on to the student's chosen major. It then, in many departments, returns to an integrative experience which may be a Capstone course taken during the last year. This course pulls together much of the major and the general educational course work.

Thus, at the end of the bachelor's program, the student is prepared not only in a departmental field of study, but also in the general abilities of questioning, explaining, and learning that remain universally useful in a rapidly changing world. Southwest Texas State University graduates have the raw materials to build solutions as they fulfill career and civic responsibilities.

### General Studies Curriculum

The General Studies curriculum accounts for 38 percent of the approximately 130 hours required for a bachelor's degree. These courses are organized into three broad categories: essential skills, disciplinary perspectives, and integrative courses.

**Essential Skills:** Students develop skills in reading, writing, speaking, listening, mathematics, problem-solving, and critical thinking. **(15-16 hours)**

**Disciplinary Perspectives:** Students learn to approach contemporary problems from eight academic perspectives: historical, political, natural science, social science, philosophical, international, fine arts, and physical fitness. **(33-34 hours)**

**Integrative Courses:** Students study the nature and value of university education and learn to integrate general knowledge with the specialized knowledge gained in the major or minor. There are two integrative courses: Freshman Seminar, required of all first-year students transferring in fewer than 17 credit hours, and the Capstone, which many departments require as a culminating course in the student's major. **(1-4 hours)**

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

### General Studies Requirements

#### Essential Skills

*Reading and Writing (6 hours)*

English 1310 and 1320 College Writing, Parts I & II

*Speaking and Listening (3 hours)*

Speech Communication 1310 Fundamentals of Speech

*Computation and Mathematics (3-4 hours)*

Math 1315 College Algebra

or Math 1316 Survey of Contemporary Mathematics

or Math 1319 Mathematics for Business & Economics I

or Math 2417 Pre-Calculus Mathematics

or Math 2471 Calculus I

(See Mathematics Department section of this catalog for minimum test scores and/or prerequisites required to enroll in these courses. Students may have to complete Math 1300 - Pre-College Algebra or Math 1311 - Basic Mathematics first.)

*Philosophy and Critical Thinking (3 hours)*

Philosophy 1305 (WI) General Philosophy

#### Disciplinary Perspectives

*Historical (6 hours)*

History 1310 (WI) History of the U.S. to 1877

History 1320 (WI) History of the U.S., 1877 to date

*Political (6 hours)*

Political Science 2310 Principles of American Government

Political Science 2320 Functions of American Government

*Natural Science (7-8 hours)*

*(If both courses are from the same science, one course may be non-laboratory.)*

Biology 1310 Principles of Biology

Biology 1410 Introduction to Plant Biology

Biology 1420 General Zoology

Chemistry 1310, 1430 Chemistry for Non-Science Majors

Chemistry 1410, 1420 General Chemistry I and II

Geology 1410 Physical Geology



Geology 1420 Historical Geology  
Physics 1110, 1310, 1320 Elementary Physics  
Physics 1410, 1420 General Physics I and II  
Physics 1430, 2425, 2435 Engineering Sequence

*Social Science (3 hours)*

Anthropology 1312 Cultural Anthropology  
Anthropology 3301 Principles of Cultural Anthropology  
Economics 2320 Principles of Microeconomics  
Geography 1310 World Geography  
Psychology 1300 Introduction to Psychology  
Sociology 1310 Introduction to Sociology  
Sociology 3300 Principles of Sociology

*International (3 hours)*

*(Approved offerings are organized alphabetically by school.)*

**School of Applied Arts and Technology**

Agriculture 3319 International Food and Fiber  
Criminal Justice 4365 Comparative Criminal Justice  
Technology 3322 Development of Technology

**School of Business**

Economics 3322 Economic Growth and Development  
Economics 3353 Comparative Economic Systems

**School of Fine Arts and Communication**

Art History 2301 Ancient to Medieval Art  
Art History 2302 Renaissance to Modern Art  
Art History 3301 (WI) History of Modern Art  
Art History 4302 (WI) Latin American Art  
Art History 4303 (WI) Pre-Columbian Art  
Art History 4306 (WI) Renaissance Art  
Art History 4308 (WI) Asian Art

**School of Health Professions**

Health Administration 4303 (WI) International Health

**School of Liberal Arts**

Anthropology 3305 Magic, Ritual and Religion  
Anthropology 3314 Latin American Cultures  
Anthropology 3321 Cultures of Asia  
Anthropology 3322 Peoples and Cultures of Africa  
Anthropology 3323 (WI) Cultures of the Middle East  
Anthropology 3350 Sex Roles  
Anthropology 3360 Economic Anthropology  
Anthropology 3365 (WI) Cultural Ecology  
Anthropology 3370 Culture and Personality  
English 3316 (WI) Film and Prose Fiction  
English 3321 (WI) The Short Story  
English 3322 (WI) The European Novel  
English 3323 (WI) Modern Poetry  
English 3325 (WI) Russian Literature in Translation  
English 3327 (WI) or 3328 (WI) Types of World Drama  
English 3329 (WI) Mythology  
English 3368 (WI) The English Novel  
English 3370 (WI) 20th Century British Literature  
Geography 1309 Cultural Environment  
Geography 3307 Geography of Europe  
Geography 3308 (WI) Latin America  
Geography 3328 North Africa and Middle East  
Geography 3333 (WI) Geography of China and Japan  
Geography 4328 (WI) Geography of the Russian Realm  
History 2310 (WI) or 2320 (WI) Western Civilization  
History 2311 (WI) or 2312 (WI) World Civilization  
French 1420 Beginning French

French 2310 or 2320 Intermediate French  
 French 3302 (WI) Survey of French Literature  
 French 3370 (WI) French Civilization  
 German 1420 Beginning German  
 German 2310 or 2320 Intermediate German  
 German 3370 (WI) German Civilization  
 Japanese 1420 Beginning Japanese  
 Japanese 2310 or 2320 Intermediate Japanese  
 Russian 1420 Beginning Russian  
 Russian 2310 or 2320 Intermediate Russian  
 Spanish 1420 Beginning Spanish  
 Spanish 2310 or 2320 Intermediate Spanish  
 Spanish 3302 (WI) Survey of Spanish Literature  
 Spanish 3306 (WI) Survey of Spanish-American Literature  
 Spanish 3370 (WI) Spanish Civilization  
 Spanish 3371 (WI) Spanish-American Civilization  
 Sociology 3350 Men, Women and Societies

*Literary (3 hours)*

English 2310, 2320 British Literature before 1785, British Literature since 1785  
 English 2330 , 2340 World Literature before 1600, World Literature since 1600  
 English 2359, 2360 American Literature before 1865, American Literature since 1865

*Fine Arts (3 hours)*

Art, Dance, Music, Theatre 3313 Intro. to Fine Arts

*Physical Fitness (2 courses)*

The Physical Fitness Perspective is a two-course requirement. Students may satisfy this requirement by completing courses in two of the three categories of Physical Fitness & Wellness courses: Lifetime Fitness and Wellness (PFW 1101), Fitness or Leisure/Recreation

(Veterans with a DD214 discharge form or those with similar active duty in the National Guard or Armed Forces of another nation may receive up to 4 hours of PE credit, thus fulfilling the Physical Fitness requirement. Students with documented disabilities should consult with the Health, Physical Education and Recreation Department for appropriate accommodations)

Lifetime Fitness and Wellness Category:

PFW 1101 Lifetime Fitness & Wellness

Fitness Category:

PFW 1110-1149 and MU 1111C, 2111C, 3111C or 4111C

(Marching Band)

Leisure/Recreation Category:

PFW 1150-1225

(A complete listing of the course offerings is available in the Health, Physical Education and Recreation Department section of this catalog and in each Schedule of Classes.)

## **Integrative Courses**

Freshman Seminar  
 Capstone

General Studies 1100  
 See departmental advisor for Capstone requirements.

## **Upper Division Alternatives**

Some SWT students enroll at locations where certain General Studies courses are not offered or they have extensive transfer work and may find it unwise to enroll for lower-division work. Others may be returning after lengthy absences from formal educational work. Students in these situations, only with prior approval of their academic advisors and the College of General Studies, may take upper division course alternatives.

## **Foreign Language**

Entering students should have received credit for at least two years of the same foreign language (including American Sign Language) as part of their high school education. Students graduating from high school after January of 1988 who do not meet this requirement must take 6-8 hours of a foreign language or achieve an appropriate score on a proficiency test in an accepted language as part of their General Studies curriculum. Certain degrees may have greater foreign language requirements.

## Writing Intensive

Certain SWT courses are designated by the College of General Studies as “writing intensive” and are labeled as (WI) in this catalog and the schedule of classes. In order to achieve this status, at least 65% of the course grade must be based on written assignments and a minimum of one extended piece of writing must be required. A minimum of 18 credit hours of these courses is required for graduation. Transfer students may have proportionately fewer WI hours required, dependent on the number of overall SWT hours they must take to earn a degree. In no case will this be less than 9 hours. Though the required English composition courses may not be counted as part of the total, there are several other General Studies courses with this designation as well as various major and/or minor courses. Most students will find that courses taken for other requirements fill the WI requirement also. Academic advisors and department chairs should have an up-to-date list of WI courses.

## Capstone

Courses designated as Capstone link knowledge acquired in both the major and General Studies courses. Such advanced courses, normally taken late in a student’s academic career, are a part of requirements for completion of many, but not all, majors. Departmental advisors have lists of approved courses.

## Undeclared Students and Advising

Students who have not yet decided on an academic major, or who are in the process of changing majors, may temporarily have undeclared status in the College of General Studies. The College provides academic advising for these students and others who have questions about their academic plans and careers. Contact the College office - room 102, Psychology building for advising appointments. (Phone 512-245-2218, FAX 512-245-8765, or the College’s Website [http://www.swt.edu/acad\\_depts/gen\\_studies/index.html](http://www.swt.edu/acad_depts/gen_studies/index.html))

## Transfer Students

Students transferring from other institutions of higher education will have their transcripts initially evaluated by the Office of Admission to determine which courses will be accepted at SWT. Those seeking more specific evaluation of courses for fulfillment of General Studies requirements may contact the College of General Studies to coordinate that process with the academic departments involved. Students should be prepared to provide documentation such as catalog descriptions, course syllabi and textbook information to facilitate verification of course content. The College will also provide initial advising for those transfer students who have not been admitted to a major at SWT.

## College of General Studies Programs

Among the other programs and services provided by the College of General Studies are:

### Freshman Seminar

**General Studies 1100 Freshman Seminar. (1-0)** This course presents the nature and structure of university education with special emphasis on the benefits and values of general education. Freshman Seminar tries to help entering students think through a most important question: “Why am I here; why is a university education for me?”

The one-hour Seminar, required of all incoming freshmen and all transfer freshmen with fewer than 17 hours, is coordinated through the College of General Studies. The Freshman Seminar office is located in Houston House, 512/245-7952. The course should be taken during a student’s first non-summer semester at SWT. Taught by approximately 100 faculty from every school of the university, the course introduces students to the process of college thinking by encouraging them to examine their present lives. Opening with the questions, “Who am I? What do I value? What do I want in life?”, the course turns next to an investigation of the nature and purposes of a university. Finally, students are asked to relate these topics by exploring the connection between their university education and the lifestyle which they will build during and after college.

### Honors Program

The Honors Program provides challenges and opportunities for talented students through a curriculum designed to enhance traditional courses of studies.

Honors classes are small seminars oriented around interactive discussion among students and their professors. Though specific topics vary, the courses normally cross traditional disciplinary boundaries and offer students an opportunity to pursue knowledge in an exciting and distinctive atmosphere. Recent offerings have included: **War and the News Media: From Vietnam through Desert Storm; Astronomy in Art, History, and Literature; and Philosophical Exploration in Film.**

The Honors Program is housed in Room 134 of the Psychology Building in the center of campus. In addition to the offices, there are two seminar classrooms, a computer laboratory, and a student lounge.

Entering freshmen from the top 10 percent of their graduating class, or those with a score of 27 on the ACT or 1180 on the SAT are eligible to apply for admission to the program. Transfer or currently enrolled students with a GPA of at least 3.25 are also eligible to apply. To graduate in the Honors Program, a student must complete at least five honors classes (which includes the Honors Thesis course) and maintain a minimum GPA of 3.25. Honors courses substitute for certain General Studies and individual departmental requirements and thus become integral parts of the degree program.

SWT rewards completion of the Honors Program requirements with recognition at commencement, a special transcript annotation, and an Honors Program graduation certificate as a supplement to the diploma.

All freshman/transfer applicants and currently enrolled students who have completed at least one Honors course may also apply for the Emmie Craddock Scholarships if, as freshmen applicants, they have a minimum ACT score of 27 or SAT score of 1200 or, as transfer or continuing students, they have a GPA of 3.5 or above. Information about the Craddock Scholarships is available from the Director of the Honors Program. Currently enrolled students who have completed 60 hours and at least one Honors course are eligible to apply for the James and Elizabeth Camp Scholarship if they have a GPA of 3.3 or above. Applications are available in the Honors Program office.

The following (HON) Honors courses are offered. Examples of previous topics are included.

(WI) **\*Honors 1390, History of Ideas I. (3-0)** A course centering on selected aspects of culture, how these aspects contribute to people's understanding of themselves and their universe, and the relevance of these aspects to contemporary society. Examples: Greek Civilization; The Evolution of American Culture.

**\*Honors 2370, Contemporary Issues in Mathematics and Computer Science (3-0)** An honors colloquium which addresses current issues in the natural sciences which have particular significance for today's society. Prerequisite: CS 1318 or Math 1315/1319.

**\*Honors 2380, Contemporary Issues in Natural Science. (3-0)** A course which addresses current issues in the natural sciences which have particular significance for today's society. Prerequisite: 7-8 hours of natural science. Example: Astronomy in Art, History, and Literature.

**\*Honors 2381, Mathematical Foundations of Science. (3-0)** An honors colloquium which introduces liberal arts students to the fundamental ideas in science and provides the mathematical background necessary for an understanding of scientific subjects. Prerequisite: CS 1318 or Math 1315/1319.

(WI) **\*Honors 2390, History of Ideas II. (3-0)** A course which explores humans' quest for an ideal society and the ideologies that quest has produced. Examples: Old and New World Philosophy; Ideal Societies.

(WI) **\*Honors 2391, History of Ideas III. (3-0)** A course which focuses upon intellectual and cultural developments in western history which have particular significance for contemporary society. Example: America in the Sixties; World Geographic Problems.

(WI) **\*Honors 3390, The Nature of Society. (3-0)** A course which probes some of the antecedents of modern society as reflected in the philosophy, art, science, and religions of the medieval and early modern era of western Europe. Examples: Renaissance Concepts of Humanity; Arts and the Humanities.

(WI) **\*Honors 3391, The Nature of Man. (3-0)** A course which explores some of the philosophical and ethical problems in the realms of modern science, technology, urbanism, and social and cultural change. Examples: Shaping of the Modern Mind; Philosophical Exploration in Film.

(WI) **\*Honors 3392, The Nature of the Human Experience I. (3-0)** A course which explores some of the historical, philosophical, and cultural aspects of our relationship to each other and to our society.

(WI) **\*Honors 3393, The Nature of the Human Experience II. (3-0)** A course which focuses on some of the cultural, historical, technological, philosophical and ideological aspects of the modern world.

(WI) **Honors 4390A Thesis Research Methods. (3-0)** A course in which students who intend to prepare an Honors Thesis meet to discuss research techniques and their thesis projects, and to do basic research, in an atmosphere which provides the background and supervision needed to complete the thesis successfully. It is recommended that students enroll in this course the semester before they enroll in the Honors Thesis course (HON 4390B).

(WI) **Honors 4390B, Honors Thesis. (3-0)** A conference course designed to allow students to pursue an independent project of research, study, or creative achievement, which culminates in a paper, laboratory or field research problem, or creative effort of some size and scope.

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\*May be repeated twice with different emphases for additional credit.

Honors Faculty include: J. Bible (Business Law), M. Brennan (History), B. Brown (Geography), R. Brown (History), R. Cohen (English), P. Deduck-Evans (English), J. Forrest (Modern Languages), T. Grimes (English), T. Hindson (Political Science), P. Hutcheson (Philosophy), C. Jaffe (Modern Languages), P. Leder (English), W. Liddle (History), D. Lochman (English), V. Luizzi (Philosophy), D. McCabe (Honors Program), A. McKinney (Philosophy), N.C. Natesan (Management and Marketing), J. B. Neely (Music), D. Olson (Physics), R. Randolph (English), T. Stimmel (Psychology), C. Temponi (Management and Marketing), N. Thomas (Music), S. Ugalde (Modern Languages), M. Warshauer (Mathematics), S. Wilson (English) and J. Yick (History).

## Student Learning Assistance Center (SLAC)

A growing number of students are finding that in order to be successful in college, they need outside tutoring in study skills and test preparation. Others with satisfactory test-taking and study skills may find they need help in specific courses. To help meet these needs, the Student Learning Assistance Center provides a wide range of free services.

SLAC provides students with a drop-in learning lab, residence hall tutoring sites, Supplemental Instruction and campus presentations.

Currently enrolled students are eligible for tutoring and schedules are available at the SLAC lab in the Alkek Library as well as in selected residence halls. Lab materials such as books, study guides, audio and videotapes, and computer-assisted instructional software offer a wide range of topics and levels, from correcting comma splices to preparing for graduate school.

Among subject areas in which SLAC gives academic assistance are accounting, science, English, business, history, philosophy, languages, and math. In addition, the staff and student paraprofessionals provide help in the development of such skills as reading textbooks, taking tests, taking notes, overcoming procrastination, managing time, and setting goals.

Many students also visit SLAC for hints on how to prepare for the Texas Academic Skills Program (TASP) test and admissions tests for graduate, law, and business schools as well as local tests such as the Mass Communication Department's Grammar, Spelling and Punctuation (GSP) test.

SLAC supervises a Residence Hall Tutoring (RHT) program and Supplemental Instruction (SI) program in cooperation with the Office of Residence Life. RHT provides academic tutoring in specified residence halls on campus during late evening hours when the SLAC Lab is closed. Supplemental Instruction sessions are held in various residence halls, as well as other campus locations, for selected history, math, business and science courses. SI sessions blend course content and ways to study the material and are led by specially trained peer leaders. SLAC staffs and supervises all SI sessions.

On request, the SLAC Presentations staff will design specialized programs on study skills and academic improvement to fit the needs of a campus club, organization or professor.

### **National Student Exchange**

The National Student Exchange offers Southwest Texas students a unique opportunity to expand their educational horizons. NSE participation enhances a student's national and cultural perspective and allows students to clarify personal and professional goals as well as explore future graduate schools.

Students can choose from over 140 member institutions throughout the U.S. and its territories (including Guam, the Virgin Islands and Puerto Rico). An exchange consists of a single semester or a full academic year of coursework at any college or university in the NSE Consortium. Credits earned at the host institution are generally transferable to SWT, allowing students to maintain progress towards their academic objectives. In addition to a \$125 program fee, students pay in-state tuition and fees at the host university.

Participants must be full-time students, have completed at least 30 hours, and must have a cumulative grade point average of at least 2.5. For more information about the program, member institutions and the application process, contact the College of General Studies.



# **DEGREES AND PROGRAMS**

**Degrees and Majors**

**Minors**

**Pre-Professional Curricula**

**Continuing Education**

**Correspondence Study**

**Extension Courses**

**Texas Certified Public Manager Program**

**International Office**

**English as a Second Language Program**

**International Education**

**Testing, Research-Support and  
Evaluation Center**

## DEGREES AND PROGRAMS

Southwest Texas State University offers a full range of specialized programs in business, education, the liberal and fine arts, sciences, applied arts, and health professions. This section of the catalog gives basic information about the degrees, majors, minors, and alternative curricula available at SWT. All these specialized programs rest on the broad foundation of general studies courses required of all students. For information about SWT's general studies requirements, see page 60.

All bachelors degrees require a minimum of 128 semester hours, including 40 advanced hours. Many degrees can be planned to include teacher certification. To learn more about a particular degree or major, including required hours, consult the individual sections.

### Bachelor of Arts

**Majors** may be selected from the following: anthropology, art, biology, chemistry, computer science, economics, English, French, geography, German, history, mass communication, mathematics, philosophy, physics, political science, psychology, sociology, Spanish, speech communication, theatre.

**Minors.** BA candidates must elect a minor from the preceding list or from one of the following (see minor requirements, on the next page): aerospace studies, agriculture, biochemistry, business administration, consumer science, criminal justice, dance, early childhood intervention, exercise and sports science, family and child development, family and consumer sciences, fashion merchandising, geology, health and wellness promotion, international studies, long term healthcare administration, media studies, medieval and renaissance studies, military science, music, nature and heritage tourism, photography, political communication, reading, religious studies, social gerontology, social work, southwestern studies, special education, technology, U.S. ethnic studies, value studies, women's studies and writing.

Regardless of major or minor, candidates for the BA must meet the following requirements:

**Science Requirement.** Four semesters of work in at least two of the departments of biology, chemistry, computer science, mathematics, philosophy (logic only), and physics, provided two of the semesters are in the same laboratory science (this satisfies the general studies natural science perspective requirement of 7-8 hours).

**Modern Language Requirement.** A proficiency level of successful completion of French, German, Japanese, Russian, Spanish or American Sign Language 2310 and 2320. See Department of Modern Languages and Department of Communication Disorders (American Sign Language) for course listings.

**English Requirement.** Two semesters of literature selected from English 2310, 2320, 2330, 2340, 2359, or 2360. See Department of English.

### Bachelor of Science

**Majors** must be selected from the following: biology, chemistry, computer science, mathematics, physics, physical and applied geography, and psychology. A minor is required and may be selected from any of the university approved minors listed on the next page.

A major in interdisciplinary studies is available for those students who want a program for elementary teacher certification. See the Department of Curriculum and Instruction for more information.

### Other Degrees

Bachelor of Applied Arts and Sciences  
Bachelor of Arts in International Studies  
Bachelor of Business Administration  
Bachelor of Exercise and Sports Science  
Bachelor of Fine Arts  
Bachelor of Health and Wellness Promotion  
Bachelor of Music  
Bachelor of Science in Agriculture  
Bachelor of Science in Applied Sociology  
Bachelor of Science in Clinical Laboratory Science  
Bachelor of Science in Communication Disorders  
Bachelor of Science in Criminal Justice  
Bachelor of Science in Health Information Management  
Bachelor of Science in Health Professions  
Bachelor of Science in Family and Consumer Sciences  
Bachelor of Science in Radiation Therapy  
Bachelor of Science in Recreational Administration  
Bachelor of Science in Respiratory Care  
Bachelor of Science in Technology  
Bachelor of Social Work

### Minors

Aerospace Studies..... 19 hours; AS 1110, 1120, 2110, 2120, 3311, 3312, 4311, 4312 and 3 hours of Mathematics.



Agriculture.....	19 hours; AG 1445, 2313, 2373, and 9 advanced hours of Agriculture.
Animal Science.....	19 hours; AG 1445, 3325, 3331, and 3 courses from AG 2345, 2367, 3301, 3314, 3321, 4326, 4330.
Anthropology.....	20 hours; ANTH 1312, 2414, 2415, and at least 9 hours advanced.
Art and Design.....	24 hours; ARTF 1301, 1302, 1303, and 15 additional Art hours, 12 of which must be advanced, chosen in consultation with the Chair, Department of Art and Design.
Biochemistry.....	24 hours; CHEM 1410, 1420, 2410, 2420, 4375, 4385 and 4275.
Biology.....	20 hours; BIO 1410, 1420, and 4 courses at least 3 of which are advanced, not to include BIO 1310, 2440, 4402, 4403, 4305, or 4408. One year of chemistry is also required.
Business Admin.....	24 hours; including ACC 2361, 2362; ECO 2310, 2320; at least 4 courses from: BLAW 2361, CIS 3370, FIN 3312, MGT 3303, MKT 3343.
Chemistry.....	23 hours; CHEM 1410, 1420, 2410, 2420, 3410, plus 1 advanced Chemistry course.
Computer Science.....	29 hours; CS 1108, 1318, 2308, 2318, 3358, 3409, plus 6 hours advanced, MATH 2358 and 3398.
Consumer Science.....	18 hours; FCS 1341, 2341, 2342 or 4301, 3341, 3342, 4341.
Criminal Justice.....	18 hours; CJ 1310, 6 hours from the criminal justice core, and 9 hours advanced criminal justice courses as required by either the law enforcement, corrections or criminal justice program.
Dance.....	27 hours; DAN 2208, 2209, 3330, 3332, 3365, 4366, 4367, 4368, 4369 and Physical Education 1181b and 1181c. Physical Education activity 1181a and 1182a must be taken as General Studies. Students must enroll in a dance activity every semester.
<b>Early Childhood</b>	
Intervention.....	21 hours; 9 hours from the common core, FCS 3357, 4301, 4302M; 12 hours of which 9 must be advanced from CDIS 1331, 4371, FCS 2351, 2353, 2367, 3351, 3367, 4351, 4352, 4355, HIM 2360, PSY 2315, SOCI 3327, PSY 3315, SOCI 3337, SOWK 1350, SOWK 2375, SOWK 4315, SPED 3381, SPED 4344.
Economics.....	18 hours; ECON 2310, 2320, and at least 12 hours advanced.
English.....	24 hours; ENG 1310, 1320; any 2 of the following: ENG 2310, 2320, 2330, 2340, 2359, 2360; and 12 hours advanced. (See additional information at beginning of Department of English section of catalog.)
<b>Exercise and</b>	
Sports Science.....	24 hours; 1310, 2356, 3317, 3320, 4323 or 3329, 4351, 3 hours physical education elective theory; 3 physical education major/minor courses (PE 1170-1192). General Studies courses to include 2 courses from the Physical Fitness Perspective.
<b>Family and</b>	
Child Development.....	21 hours; FCS 1351, 2353, 3355, and 12 additional family and child development hours, at least 9 of which must be advanced. Students may select from: FCS 2351, 3357, 3351, 3353, 4301, 4302, 4351, 4352, 4355, or 4101.
<b>Family and</b>	
Consumer Sciences.....	18 hours; FCS 1341 or 3341, 1351 or 3355, 1331 or 1332 or 3331, 1360 or 3362, 2329 or 3329, plus 3 hours electives from this list, 9 hours must be advanced.
<b>Fashion</b>	
Merchandising.....	18 hours; FCS 2331 or 3331, 1332, 1337, 3330, 4330, 4337 or 4339.
Geography.....	18 hours; GEO 1309, 1310, and 2410, at least 9 hours must be advanced.
Geology.....	19 hours; GEOL 1410, 1420, 2410, and 7 hours from 3321, 3410, 4121, 4320, and 4330.
<b>Health and</b>	
Wellness Promotion.....	24 hours; H ED1310, 2338, 2340, 3301, 3348, 3350, 4340, 4350.
<b>Health Information</b>	
Management.....	21 hours; HIM 3306, 3363, 3365, 3370, 4355, 4382, 4385.
History.....	24 hours; HIST 1310, 1320, 2310 or 2311, 2312 or 2320, and 12 hours advanced divided equally between Group A and Group B courses.
Horticulture.....	18 hours; AG 2379, 3304, 3305, and 3 courses from 3306, 3455, 4300, 4302.
International Studies.....	33 hours; ANTH 1312 or 3301, ECON 2310 and 2320, GEO 1310, HIST 2310 or 2311, 2312 or 2320, Political Science 2323, CIS 1323 or HIST 3370, one of Political Science 4326, 4327, 4356, 4357, 4359, ECON 3317, plus six hours advanced (no more than three in one discipline) from the approved list in the International Studies section in School of Liberal Arts.
<b>Long Term Health</b>	
Care Administration.....	21 hours; LTCA 3308 or 3325, 3322, 3323, 3324, 4315, 4320 and 4335. Students desiring licensure must also complete three semesters of LTCA 4681 and have a baccalaureate degree.
Mass Communication.....	18 hours; MC 3343, 3355, 3367, 4302 plus six hours selected from 1301, 3375, 4316A, 4356C, 4376A, 4382A, 4382B, 4382C, or 4382D.
Mathematics.....	17 hours; 2471, 2472, and 3 advanced courses other than 3315, 4302, 4304, 4311 and 4382. A student may receive credit for only two of Math 1317, 2417, and 2363.

Media Studies .....	18 hours; MC 2319, ENG 3316, and 12 hours from: ANTH 3309, ArtH 4304, ENG 3327, ENG 3329, ENG 3340P, FCS 3391, GEO 2411, GEO 3416, GEO 4412, GEO 4422, GEO 4426, GEO 4427, HON 3391H, HON 3391L, HON 3391R, HON 3391S, MC 3355, MC 3375, MC 4301, MC 4336B, SPAN 4350, POSI 4301, COMM 4317D, TH 3341, TH 3342.
Medieval and Renaissance Studies.....	24 hours; 6 hours of core courses, one in English and one in History: English 2310 or 2330 and History 2310 or 2311. The remaining 18 semester hours may be selected from the courses listed below; no more than 3 courses in a single department may count toward this minor. Students should check with individual departments for all course prerequisites. ArtH 2301, 2302, 4306, 4322; Dance 4368, 4369; English 3351, 3352, 3353, 3354, 3356, 3392, 4351, 4355, 4358; History 3312, 3315, 4307, 4317; Mathematics 4311; Modern Languages: French 3301, German 3301, Spanish 3301; Music 3315; Philosophy 2311; Political Science 3332, 3333, 4313; Technology 3322; Theatre 3320. Relevant special topics courses may be substituted with permission of the Director of Medieval and Renaissance Studies.
Military Science.....	27-35 hours; MS 1211, 1212, 2211, 2212, (or placement credit) 3311, 3312, 4311, 4312, Military History, and one course in Computer Literacy, and Math Reasoning, and two courses in Written Communication.
Modern Languages .....	12-26 hours; Completion of at least four advanced courses in the same language selected from French, German, Japanese, Russian, Spanish.
Music .....	24 hours; 1210, 1211, 1212, 1213, 3207, plus 10 hours advanced; ensemble and/or applied music, 4 hours.
Nature and Heritage Tourism.....	24 hours; 9 hours of core courses, NHT 4301, 4302, and any 3 hours from topics courses ANTH 3375, REC 4318, HIST 3369 or SOCI 3375; the remaining 15 hours from at least 2 departments outside the student's major: ACC 2361, 2362; AG 3318, 3321, 3351, 3354, 3426, 3427, 4383; ANTH 2415, 3314, 3315, 3331A or C, 3345, 3347, 3375C, 4630; BIO 3407, 3422, 4305, 4410, 4415, 4416, 4420, 4421, 4422, 4423, 4434; ENG 3309, 3340G, 3345, 3346, 4325; GEO 2410, 3313, 3329, 4321, 4411, 4430; REC 1310, 1330, 3340, 3351; HIST 3353, 3369, 3370, 3372, 4372; MKT 3343; MGT 3303, 3340, 4336; POSI 3328, 4322, 4336; SOCI 3366.
Philosophy .....	18 hours; 12 hours advanced.
Photography.....	19 hours; TECH 1450, plus 5 courses selected from the following: TECH 2350, 2366, 3350, 3355, 4350, 4355, and 4366.
Physics.....	24 hours; PHYS 1430, 2425, 2435, 3312, 3414, plus 2 advanced courses.
Plant and Soil Science .....	20 hours; AG 2313, 2421, 3426, plus 3 courses from 3301, 3321, 3427, 3455, 4315, 4322.
Political Science .....	24 hours; POSI 1308 or 1309, and at least 1 advanced political science course from 4 of the following groups: Group I, Political Theory and Methodology; Group II, American Government; Group III, Public Law and Public Administration; Group IV, Comparative Government; and Group V, International Relations.
Psychology .....	21 hours; PSY 1300 and 18 additional hours, at least 12 of which must be advanced.
Religious Studies.....	18 hours; including any of the following: Anthropology 3305, 3332; ArtH 3302; English 3329; History 4318; Philosophy 3317, 3318, 3319, 4388; Political Science 3306, 4313; Religion 2320, 3360, 3365.
Social Gerontology .....	18 hours; nine hours from SOCI 1310 or 3300, 3383, and SOWK 4320 or PSY 3313, and 9 hours from SOCI 3308, 3327, 3337, 3383, 3384, Long Term Health Care Administration 3308, 4315, 4338, and Psychology 2315, 3361 and Geography 3350.
Social Work.....	18 hours; SOWK 1350, 2375, 3355, and 9 hours of social work electives, excluding 3340, 3430, 3435, 4305, 4425, 4645 and 4650.
Sociology.....	18 hours; SOCI 1310 or 3300, at least 12 of which must be advanced.
Southwestern Studies.....	18 hours; English 3345 and 3346, the interdisciplinary core courses, and the remaining 12 semester hours may be selected from the following courses: Agriculture 2421; Anthropology 3314, 3315, 3331A, C, 3350; ArtH 3302; Biology 3460, 4410, 4421, 4422; Curriculum and Instruction 3332; English 4300, 4325; Geography 3308, 3329, 4313; History 3320, 3353, 3372, 4372; Political Science 4331, 4338, 4358; Social Work 4310; Sociology 3327, 3376B; Spanish 3320, 3371.
Special Education.....	21 hours; SPED 2381, 3338, 3381, 4344, 4345, 4374 and 4381.

## Speech

Communication .....	24 hours; COMM 1310, 1315, 2330, 2338, 3327 and 3333, and 6 hours of Communication electives, 3 of which must be advanced. COMM 2111 will not be counted toward the minor.
Technology .....	18 hours; a minimum of 9 advanced hours. Courses chosen in consultation with a departmental advisor or Chair, Department of Technology.
Theatre.....	24 hours; 1358, 1364, 2338, and 15 additional hours, twelve of which must be advanced, chosen in consultation with Chair, Department of Theatre.
US Ethnic Studies.....	18 hours. Ethnic Studies 3301 plus 9 hours from Anthropology 3314, 3315, 3331A, 3331C, 3332, 3345, 3324; English, 3331, 3344; History 3359, 3320, 3325E, 4372, 3329, 3369W, 3369Y, 3369Z; Honors 3391Q, 3391V, Modern Languages 3305, 3306, 3371, 4370; Music 3375, Political Science 4331B, 4331C, and 6 hours from Anthropology 1312, 3370, ArtH 4301, English 2340, 3345, 3346; Family and Consumer Sciences 4351, Geography 3306, 3308, 3329, 3353, History 3353, 3372, Honors 3392E, Political Science 3319, 3395, Spanish 4330, Social Work 4310, Sociology 3327, 3366, 3375, Speech Communication 3318F, 4322, Mass Communication 4382C.
Value Studies.....	18 hours; Philosophy 1305 and 1330 or 2330, and 3320, 3321, 3322, 4388.
Women's Studies.....	18 hours; WS 3376 and 3377, and 12 hours from: Anthropology 3350, 3324, Psychology 3332, Sociology 3350, 3370, Speech Communication 4382C, 3334, English 3388, 3392, Political Science 4330, Criminal Justice 4326, Honors 3392G, 3392A, History 3373, 3369Y, and Mass Communication 3318C.
Writing.....	24 hours; See requirements in the Department of English section of this catalog.

## Pre-Professional Curricula

Students preparing to study architecture, pharmacy, medicine, dentistry, veterinary medicine, engineering, or law, should enroll in the Bachelor of Arts or Bachelor of Science degree as suggested by the advisors listed below. Before each registration, the student should consult his or her advisor.

**Architecture.** Architectural degree programs are offered as four, five and/or six year options. Schools offering Architectural programs in Texas include The University of Texas at Austin, The University of Texas at San Antonio, The University of Texas at Arlington, Texas Tech University, The University of Houston, Rice University, and Texas A&M University. Majors include areas associated with architectural design, architectural engineering, regional and city planning, and landscape architecture.

Those courses accepted by most architecture schools are: English 1310, 1320, Mathematics 1315, 1317, History 1310, 1320, Political Science 2310, 2320, Physics 1410, 1420 and physical education activities, two semester hours. Other courses could be selected based on the selected school, architectural major, and student's background. Selected options in architecture use a broad based general academic or liberal arts program as a foundation to build the degree plan, while others will use only a minimum of these courses.

Because of the many choices of curricula in the field of architecture, all pre-architecture students, from the time they first enroll, should regularly consult with their advisor in selecting courses. Failure to do so may result in loss of transfer credit. Even courses accepted for transfer credit by another university may not apply toward a degree in architecture. Only those courses acceptable by the dean of the student's elected architecture school may be counted toward the corresponding degree. Advisor: Department of Technology.

**Health Professions Programs.** Students interested in health professions programs should visit or contact the School of Health Professions Advising Center at 512/245-3506. Information about the following fields is available: clinical laboratory science, communication disorders, health care administration, health information management, long term health care administration, radiation therapy, respiratory care and social work. Although the School does not offer degrees in nursing or occupational therapy, it does provide pre-professional advising for these fields.

**Combination Degree in Medicine or Dentistry.** After completing at least 96 hours of prescribed work at SWT, a student who is later certified by an approved medical or dental school as having satisfactorily completed one year's work at that institution may be granted a bachelor's degree by Southwest Texas State University. The student must meet all catalog requirements for the degree and must earn the last 30 of the 96 undergraduate hours at SWT. Advisor: Dean, School of Science.

**Dentistry.** Dental schools require two years of college work for entrance; however, most students accepted by dental schools have more than this. A bachelor's degree is preferred. Included in the required courses are the following: Chemistry 1410, 1420, 2410, 2420; Biology 1410, 1420, 2430, 2460; Physics 1410, 1420; English 1310, 1320. It is recommended that the students complete, in addition to the above courses, the General Studies requirements and the requirement for the Combination Degree leading to a B.S. in General Biology with a minor in Chemistry. Additional courses for the latter include Mathematics 2321 and 2331 (or 2417, 2471, and 2472) and Biology 3450 and 4416. Please note that the Combination Degree is more rigorous than the minimal courses required by most dental schools. An early admission program agreement between SWT and UTHSCSA Dental School is also available. Advisor: Dr. Caroline Benjamin, Department of Biology.

**Engineering.** There are two pre-engineering options. Students taking the first option (called a 3-2 option) spend approximately six semesters in a mathematics or physics curriculum or, for chemical engineering, a chemistry curriculum. After the completion of at least 96 hours of prescribed work, the last 30 of which must be earned in residence, a student in the 3-2 pre-engineering program who later earns an engineering degree from an approved engineering school may be granted a bachelor's degree by Southwest Texas State University. The student must (1) satisfy all General Studies requirements, and (2) complete a degree outline in their major departmental office before leaving SWT. After completing the entire program, students receive both an engineering degree from the school they attended and a BS in chemistry, mathematics, or physics from Southwest Texas State University. With the second option, students spend three to six semesters taking courses basic to the field of engineering they intend to enter and then transfer to the engineering school to pursue a degree.

Because of the many choices of curricula in the field of engineering, all pre-engineering students, from the time they first enroll, should regularly consult with their advisor in selecting courses. Failure to do so may result in loss of transfer credit. Even courses accepted for transfer credit by another university may not apply toward a degree in engineering. Only those courses acceptable by the dean of the student's elected engineering school may be counted toward the corresponding degree.

Concerning transfer of courses, SWT has entered into transfer articulation agreements with The University of Texas at Austin, Texas A&M, Texas Tech University, and the University of Texas at San Antonio. These agreements specify suggested equivalences of courses. For additional information, contact your academic advisor.

If their mathematics background is inadequate to enroll in Mathematics 2471, first semester freshmen are advised to earn credit in Mathematics 1315, 1317, and 2363 (or 2417) in the summer session immediately preceding the regular session in which they plan to enroll. (See the catalog description for the proper prerequisites.) If this suggestion is not followed, the student's program is usually delayed by at least one semester. Students making a "D" in a technical course that serves as a prerequisite to another course are strongly urged to repeat the course. Advisor: Dean of the School of Science or Chair of the Department of Technology. For information on engineering technology see Department of Technology/Engineering Technology.

**Law.** All accredited law schools in the state-Baylor University, Southern Methodist University, South Texas School of Law, St. Mary's University, Texas Southern University, Texas Tech University, The University of Houston, and The University of Texas at Austin-require the following from applicants prior to admission: (1) a bachelor's degree, (2) superior grades, and (3) a satisfactory score on the Law School Admission Test (LSAT).

It is strongly recommended that as many of the following courses be taken during the junior and senior years as the major curriculum permits: Criminal Justice 2315; Economics 2310, 2320; Finance 3301, Business Law 2361, 3362; Geography 3320, 4338; History 3315, 3316, 3344, 3349; Philosophy 2330, 3320-3321, 3331-3332, 3340; Political Science 3310, 3311 (or 3312), 3314, 3329, 4311, 4340 (or 4313 or 4356), 4352, 4361; Speech Communication 4331; and Sociology 3307 (or Political Science 3377), 3308, 3343.

Pre-law students are urged to consult the pre-law advisor and a pre-law representative, as appropriate, from the various schools: Professor John McLaren, Department of Criminal Justice, School of Applied Arts and Technology; Professor John McGee, Department of Finance and Economics, School of Business; Dr. Vincent Luizzi, Department of Philosophy, School of Liberal Arts; and Dr. Susan Day, Department of Sociology, School of Liberal Arts. The pre-law student should also become familiar with the services available through the Student Learning Assistance Center (SLAC). Advisor: Dr. Paul Kens, Department of Political Science.

**Medicine.** Medical schools recommend an appropriate bachelor's degree for entrance. A suggested program that will satisfy pre-medical requirements is as follows: Chemistry 1410, 1420, 2410, 2420; Biology 1410, 1420, 2430, 2460; Physics 1410, 1420; Mathematics 2321 and 2331, (or 2417, 2471, 2472); English 1310, 1320. Students who anticipate applying for the Combination Degree leading to a B.S. in General Biology with a minor in Chemistry should include the General Studies requirements and Biology 3450 and 4416. Advisor: Dr. Caroline Benjamin, Department of Biology.

**Pharmacy.** Pharmacy is a five- or six-year program, two years of which may be taken at SWT. The following courses are required for the four pharmacy schools in Texas, The University of Texas at Austin, the University of Houston, Texas Southern University and Texas Tech University: Biology 1410, 1420; Chemistry 1410, 1420, 2410, 2420; History 1310, 1320; Physics 1410; Political Science 2310, 2320. Requirements for mathematics, English and other courses vary according to the pharmacy school. Consequently, it is imperative that pre-pharmacy students consult with the advisor prior to and during their pre-pharmacy program. Advisor: Dr. B. J. Yager, Department of Chemistry.

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

Biochemistry 4375.....	3
Vertebrate Zoology, Biology 1420 .....	4
General Microbiology, Biology 3440 .....	4
Inorganic Chemistry, Chemistry 1410,1420 .....	8
Organic Chemistry, Chemistry 2410.....	4
English 1310, 3 hours literature, 3303	
and Speech Communication 1310, 2320 or 2338 .....	12
Agriculture 3301 or Biology 3450.....	3
Mathematics 1329, 2321/2331, 2471/2472, or 3305 .....	3
Agriculture 3325 or 4325 .....	3
Physics 1410, 1420.....	8

Formal application on a special form supplied on or about July 15 each year by the office of the dean at the Veterinary School must be filed with that office before October 1. A complete and official transcript from each college or university the applicant has attended must accompany the application forms. A record of courses in progress (and a record of courses planned for the following spring term and summer terms if the applicant will be enrolled) must also be submitted. The application must be accompanied by a non-refundable fee of \$35.00 (check or money order payable to Texas A&M University) which is used to partially defray the cost of processing the application.

The applicant must have an overall grade-point average of 2.75 or better or a 3.00 grade-point average or better for the last 45 semester credits completed (A=4.00 grade points).

Each applicant must submit scores for the Graduate Record Examination (GRE). It is recommended that the applicant take the spring testing. However, the September testing date will be acceptable. The GRE will be given at various centers throughout the United States, including SWT. To determine the most convenient location, prospective applicants should write to the GRE, General Test Coordinator, Educational Testing Service, P.O. Box 6000, Princeton, N.J., 08541-6000. Students may also call (609) 951-6505 or contact the SWT Placement Center.

Advising for students who wish to qualify for the professional curriculum in veterinary medicine is available at SWT by contacting the SWT Pre-Veterinary Advisor or by appointment with the Office of the Dean, College of Veterinary Medicine, Texas A&M University, College Station, Texas 77843 (telephone (409) 845-5054). Advisor: B. Michael Abel, D.V.M., Department of Agriculture, (512) 245-2130.

## CONTINUING EDUCATION

The Office of Continuing Education works in cooperation with Southwest Texas State University academic schools and departments to extend the resources of the University beyond the traditional campus classroom. Professional staff in Continuing Education work with other faculty and staff and assists them in offering programs that help meet the needs of the many communities SWT serves. These programs are generally non-credit in nature. Seminars, workshops, conferences, and short courses coordinated and conducted by Continuing Education help meet community needs. Continuing Education coordinates planning, budgeting, marketing, fee collection, registration, meals, housing, evaluation, and other duties that may be required. Continuing Education sponsors many programs.

Some programs receive Continuing Education credits. Persons who successfully complete these designated programs are awarded Continuing Education Units. One CEU is awarded to a person who completes a ten contact hour program.

### Correspondence Study

Correspondence study provides an alternate method to earn undergraduate credit hours. Each course provides a study guide, correlated with a textbook and detailed instructions for all assignments. All correspondence courses are developed, and are periodically updated, by SWT faculty. The Office of Correspondence and Extension Studies has prepared a catalog which discusses all program regulations and includes a listing of courses available through correspondence. A copy of the current Correspondence Study Catalog of course offerings may be obtained by writing The Office of Correspondence and Extension Studies, Southwest Texas State University, San Marcos, Texas 78666 or by calling (512) 245-2322.

**General Regulations.** The following regulations govern correspondence study at SWT:

1. Correspondence courses may be taken by those who are not currently enrolled in a college or university as well as by those who are now enrolled at SWT or another institution.
2. SWT juniors and seniors must obtain approval from their school dean before registering for a correspondence course. Students from other colleges and universities should also secure approval from the proper official of their home institution before registering. Graduate students may not take courses by correspondence for graduate degree credit.
3. A maximum of 18 hours of correspondence credit may be applied toward a bachelor's degree.
4. Students on active suspension from SWT are ineligible for correspondence course credit.
5. Enrollment in a correspondence course does not constitute official admission to the university.

### Extension Courses

Extension courses are offered at various off-campus locations, both within and outside of Texas and outside the United States (Study Abroad). The time and location of such courses depends on student need and faculty availability. SWT's extension program serves persons unable to come to campus who wish to earn degree credit or pursue in-service training.

**General Regulations.** The following regulations govern SWT extension study:

1. Enrollment for an extension course does not constitute official admission into the university.
2. Students on active suspension from SWT are ineligible for extension credit.
3. Full-time students at SWT may not enroll in extension courses without written permission from the dean of the appropriate school at their university.
4. Students from other institutions who wish to transfer extension credit should obtain prior approval of their home institution.
5. If enrollment for extension courses will create an academic overload, students must have prior, written approval of their school dean and chair.
6. Those not admitted to SWT may take extension courses.
7. Transcript records are maintained for all credit earned by extension.
8. A maximum of 30 semester hours for SWT credit may be completed through a combination of correspondence and extension courses.

9. Those employed as teachers may present for credit toward a certificate or degree not more than six hours during one public school year.

For more information on available courses, locations, fees, and other regulations, call the Office of Correspondence and Extension Studies, 512-245-2322.

## **Texas Certified Public Manager (CPM) Program**

SWT has been officially designated by the National Consortium of Certified Public Managers (CPM) to offer this program in Texas. The CPM Program offers a systematic training program to enhance quality, efficiency of management in government and improve professionalism and effectiveness of government managers. Continuing Education is coordinating this program on the SWT campus. Individuals may enroll at any time during the year; programs are held approximately every two months. Admission to the University is not required. Contact: Director, Public Service Academy, Continuing Education @ (512) 245-3453 or (512) 422-8955, FAX (512) 331-7293 or access the World Wide Web (URL) at <http://www.swt.edu> When in the SWT web check the index for Certified Public Manager Program.

## **International Office**

The International Office provides a variety of services to international students/faculty/staff at SWT and to U.S. students who wish to study or work abroad during their collegiate years. The office supports other international initiatives at SWT with information and resources.

The primary responsibility of the office is to act as the official international student advisor for all visa and other immigration issues. An individual orientation interview is held with each new student to determine needs and answer questions. The office is a continuing source of information, advising/counseling, and social services relevant to international students.

Study abroad and work abroad opportunities abound for SWT students. In conjunction with other campus offices, the International Office maintains a resource library about those programs and provides additional information about traveling/working abroad. Students can purchase the International Student ID Card and get passport applications through this office.

For information, contact the Director of the International Office, (512)245-7966; FAX (512) 245-3752; or [DS11@swt.edu](mailto:DS11@swt.edu) (Email).

## **SWT/ESL**

SWT/ESL is a non-credit university intensive English as a Second Language program for international students who want to improve their command of English before entering an educational institution in the United States. Currently, intermediate and advanced classes in ESL reading, writing, grammar, and oral skills are offered during the fall, spring, and summer sessions. For information about admission procedures, program costs, starting dates, and class times, please contact the Director of SWT/ESL at (512) 245-7810; FAX (512) 245-3752; or [JS23@A1.SWT.EDU](mailto:JS23@A1.SWT.EDU)(Email).

## **International Education**

The Center for International Education gives SWT students several opportunities to develop global awareness and intercultural sensitivity during their undergraduate years. The Center helps ensure a strong international dimension to the three traditional roles of a university: teaching, research, and public service. Specific projects supported by the Center include:

*Academic Semester Abroad.* The university administers its own program and has cooperative agreements with several foreign universities and international agencies.

*Student exchanges* or study abroad programs are regularly offered at the University of Kent at Canterbury (England), the University of Hannover (Germany), the University of Puerto Rico, Kansai Gaidi University (Japan), the University of Silesia (Poland), the University of Costa Rica, the National University (Costa Rica), and the University of Alcalá (Spain).

*Short Term Study Abroad.* The university sponsors study/travel programs in many disciplines. Contact the Office of Correspondence and Extension Studies.

*European Internships.* The Center can customize internships for juniors, seniors, and graduate students in all disciplines in London, Paris, Edinburgh, Bonn, Cologne, Strasbourg, Madrid, and San Jose, Costa Rica. Applications are available at the Center.

*The VISIT Program.* The Center administers the VISIT Program which brings international scholars and teachers to campus during the spring semester.

The Center also administers the *F. I. R. S. T. (Faculty International Research and Scholarly Travel) Program* that offers faculty development seminars at various foreign universities.

*International Conferences and Seminars.* The Center, in cooperation with various academic departments, supports scholarly conferences, seminars, and workshops.

*Career Counseling.* The Center works closely with the Center for Counseling and Placement to prepare students for internationally-focused careers in various fields.

*Advising.* Faculty advisors help the Center with advising students in selecting appropriate courses. Advisors also provide information on further study and/or career opportunities. A list of advisors is available from the Center.

*Financial Assistance.* Loans for qualified students are available at the Financial Aid Office. Some departments will hire academically talented but needy students who wish to earn money for a study abroad program. The Center's academic programs also qualify for support under the various financial aid packages offered by the university. See the financial aid section of the catalog.

*Scholarships For Study Abroad.* The Center awards grants to students to assist their participation in study abroad programs. The grants are based on merit and need and typically do not exceed \$1,000.

For more information on any of the programs offered through the Center for International Education, write the Center or call 512-245-2339.

## **TESTING, RESEARCH-SUPPORT, AND EVALUATION CENTER (TREC)**

The Testing, Research-Support, and Evaluation Center, located in lower Commons Hall, administers national, state and local academic testing programs, including the Credit by Examination program. The TREC also maintains information and registration materials for several tests not administered at the University.

Among national tests available at SWT are: the Graduate Record Examination (GRE), required for admission to most graduate schools; the American College Test (ACT), a college entrance examination consisting of subtests in English, Mathematics, Reading and Science reasoning; the Scholastic Aptitude Test (SAT), a college entrance examination measuring verbal and mathematical skills; and the Medical College Admissions Test (MCAT) required for admission to medical school.

Tests for which the TREC maintains only registration materials include: the Graduate Management Admissions Test (GMAT), required for most business schools; the Law School Admissions Test (LSAT); the Test of English as a Foreign Language (TOEFL) and The PRAXIS Series Professional Assessments for Beginning Teachers which includes the NTE and PPST registration information.

TREC is also a testing site for the Texas Academic Skills Program test (TASP) which students must take before enrolling in any college coursework (see Academic Policies, Pg. 49).

Students who do not achieve an SAT math score of at least 480 or an ACT math score of at least 21 should take a math placement exam administered by the Testing, Research-Support and Evaluation Center. The examination determines which students must first enroll in Math 1300 (Pre-College Algebra) and/or Math 1311 (Basic Mathematics) before they can enroll in the required Math 1315 (College Algebra), Math 1316 (Survey of Contemporary Mathematics) or Math 1319 (Math for Business and Economics I).

Credit by Examination is a program that recognizes many students, independent of the college environment, have attained college-level proficiency in academic subjects. Students who pass the same test as those who have successfully completed the course, can earn credit for certain courses without enrolling in them. The following options are available: 1) the College Board's Advanced Placement Examination (AP), 2) College Level Examination Program (CLEP), 3) SAT II Subject Tests, and 4) departmental examinations where available. Credit established in this manner at the TREC will be recorded as "credit only" (CR) on the transcript and will not affect the grade point average. SWT is an institutional testing center and only those students who have attended SWT or are currently enrolled are eligible to participate in the Credit by Examination Program. More detailed materials on this and other TREC programs are available in lower Commons Hall.







# SCHOOL OF APPLIED ARTS AND TECHNOLOGY

**Gene Martin, Ed.D., Dean**

## **Department Chairs**

Aerospace Studies (AFROTC)..... Colonel L.K. Rever, M.S.  
Agriculture ..... Lon R. Shell, Ed.D., Acting  
Criminal Justice ..... Wayman C. Mullins, Ph.D., Acting  
Family and Consumer Sciences ..... B. J. Friedman, Ph.D.  
Military Science (AROTC) ..... Lt. Col. Karen S. Adams, M.S.  
Technology..... Robert B. Habingreither, Ed.D.

## SCHOOL OF APPLIED ARTS AND TECHNOLOGY

The School of Applied Arts & Technology's mission is to prepare undergraduate and graduate students for careers through programs of high quality in academic, professional, and technical areas; to further faculty excellence in teaching supported by quality scholarship; and to enhance our involvement with local, state, national, and international constituencies.

The School of Applied Arts and Technology offers five undergraduate degrees: (a) Bachelor of Science in Agriculture; (b) Bachelor of Science in Criminal Justice; (c) Bachelor of Science in Family and Consumer Sciences; (d) Bachelor of Applied Arts and Sciences; and (e) Bachelor of Science in Technology. In addition, the Departments of Aerospace Studies and Military Science prepare students for commissioning in the United States Air Force, United States Army, United States Army Reserves, or Army National Guard.

Many courses offered in the School have prerequisites that must be completed before enrolling in a specific course. Students are strongly encouraged to seek academic advising prior to enrolling in any course or program of study. Academic advisors are available to assist students in the School's Advising Center, which is located in Room 201 of the Agriculture Building. Career counseling is available in the department of the student's major.

Seventeen undergraduate majors (several with specialized options) are offered by four departments within the School:

**Agriculture:** animal science, general agriculture without teaching certification, general agriculture with the teaching certification, agricultural business and management with specializations in agribusiness operations, agricultural systems management, and horticultural business.

**Criminal Justice:** law enforcement, corrections, criminal justice

**Family and Consumer Sciences:** family and consumer sciences (with consumer science option and teacher certification option), family and child development, fashion merchandising, interior design, nutrition and foods

**Technology:** industrial technology, engineering technology, applied arts and sciences

Programs leading to teacher certification are available in the Departments of Agriculture, Family and Consumer Sciences, and Technology.

Several of the School's programs have internship courses. An internship provides opportunities for students to further their education in an environment that is external to the university. These courses have minimum entrance requirements including being in good academic standing at the time of the internship. More specific course requirements are available from the department of your major.

Credit by exam, CLEP, DANTES and other similar proficiency examinations satisfy degree requirements in the same way as credit earned by passing courses except that they do not count as credit earned in residence and cannot be taken within the last 30 hours of study.

No more than six (6) semester credit hours of major courses beyond those that apply toward the major will count for credit toward graduation. Hours of major work beyond the six (6) semester credit hours will be treated as non-credit. These hours, however, will be a part of the cumulative SWT GPA if they have been taken at SWT.

Students who have earned at least 60 semester hours at SWT are eligible to graduate with honors if they have a minimum SWT GPA of 3.40.

For further information, visit the Office of the Dean in Room 300 of the Agriculture Building, or call 512-245-3333, or our website [www.swt.edu/acad\\_depts/applied\\_arts/index.html](http://www.swt.edu/acad_depts/applied_arts/index.html)

## Department of Aerospace Studies

### Air Force Reserve Officer Training Corps

*Chair and Professor-Colonel Rever, Assistant Professors-Captain Schrauth, Captain Warner, Captain Langan.*

The Air Force ROTC Program at Southwest Texas State University develops skills and attitudes vital to professional Air Force Officers. The purpose of the program is to commission qualified students who wish to serve in the United States Air Force. Two routes are available in Air Force ROTC at SWT. Entering students may either enroll in the four-year program or apply for the two-year program.

For the four-year program, students may register in the same manner as for other college courses. During the freshman and sophomore years of the program, students enroll in the General Military Course (GMC). Membership in the GMC does not confer any military status or commitment upon the cadet. After completion of the GMC, students compete for entry into the Professional Officer Course (POC), which is outlined below and normally is taken during the last two years of college.

The two-year program consists of the Professional Officer Course (POC), the last two years of the four-year program. It is designed to provide greater flexibility to meet the needs of students desiring Air Force opportunities. The basic requirement is that the student has two full-time academic years remaining at either the undergraduate or graduate level or a combination of both. Students interested in the two-year program should begin the application process one year in advance of the fall term in which they plan to enter the program. Students may apply in writing or by a personal visit to the Office of Aerospace Studies.

Selection for the Professional Officer Course (POC) is highly competitive. Criteria used to assess qualifications of applicants are the Air Force Officer Qualification Test (free), cumulative GPA, physical fitness test, and the recommendation of the Professor of Aerospace Studies. Before formal induction into the POC, applicants must complete a summer field training encampment paid for and conducted annually by the Air Force at various Air Force Installations. Students in the four-year program attend a four week encampment, and students in the two-year program attend a six week encampment. Upon completion of the six-week summer field training, two year cadets may receive credit for Aerospace Studies 1110, 1120, 2110, and 2120.

Both GMC and POC members must attend a weekly two-hour laboratory each semester. The laboratory gives cadets a chance to learn and practice leadership skills. Students who complete at least three semester hours of credit in the junior level of Aerospace Studies Classes will not be required to take Political Science 2320. All cadets must demonstrate proficiency or successfully complete a course in mathematical reasoning before commissioning. Ideally, this course should include a specific skill (e.g., statistics, computer science, calculus.) Failure to satisfactorily complete the course may result in disenrollment from the program.

Students may compete for a variety of scholarships. Qualified students may apply during the fall or spring semester for a scholarship that covers the remaining years in the program. The scholarships provide full tuition, laboratory and incidental fees, and an allowance for books. In addition, scholarship students, regardless of classification, receive \$150 per month tax-free subsistence. Students may obtain complete scholarship information at Department of Aerospace Studies (AFROTC), Hines Academic Center, Room 108, 512-245-2182, or our website [www.swt.edu/acad\\_depts/af\\_rotc](http://www.swt.edu/acad_depts/af_rotc)

### Courses in Aerospace Studies (A S)

**1000 Leadership Laboratory. (0-1)** This course is an integral and mandatory part of the Aerospace Studies curriculum. It is a progression of practical command and staff experiences designed to develop leadership potential. The laboratory is led primarily by cadets who plan, organize, direct, coordinate, and control all activities of the cadet corps. The lab meets two hours per week and is taken concurrently with all other Aerospace Studies courses.

**1110 The Air Force Today (General Military Course I). (1-0)** A study of the doctrine, mission, and organization of the United States Air Force; United States strategic offensive and defensive forces, their missions and functions; and employment of nuclear weapons.

**1120 The Air Force Today (General Military Course II). (1-0)** An introduction to flight, oral and written communication for the Air Force officer, Air Force installations, and the Air Force profession. The course will also cover how the Air Force relates to the U.S. Army, Navy, Marines, and Coast Guard.

**2110 The Development of Air Power (General Military Course III). (1-0)** This course examines the development and growth of air power from a historical perspective starting before the first powered flights, and continuing through World War I, the inter-war years, and World War II. It traces development of the various concepts for employment of air power and focuses upon factors which have prompted research and technological change.

**2120 The Development of Air Power (General Military Course IV). (1-0)** A continuation of 2110, beginning with the development of air power from World War II to the present. Various events and trends in the history of air power are examined, especially where these provide significant examples of the impact of air power on strategic thought. Contemporary defense strategy, concepts, and doctrine are emphasized.

**3311 Leadership and Management (Professional Officer Course I). (3-0)** A seminar course which examines management fundamentals and principles pertaining to group behavior process, human processes, human motivation, and various approaches to leadership styles, with a strong focus on Deming Management Method/Total Quality Management (TQM) as it is used in the Air Force today. It emphasizes communication skills necessary for future junior officers in the United States Air Force.

**3312 Leadership and Management (Professional Officer Course II). (3-0)** A seminar course pertaining to the development of leadership and managerial responsibilities of the Air Force officer. Includes the decision-making process, tools for problem-solving and career management. Continues the emphasis on communication skills.

**4311 National Security Forces in Contemporary American Society (Professional Officer Course III). (3-0)** This seminar course begins with an analysis of the various dynamics involved in American defense policy making. The semester concludes with examinations of the world political/military/economic interface. Throughout this course, students will learn and practice communication skills necessary as future junior officers in the United States Air Force.

**4312 National Security Forces in Contemporary American Society (Professional Officer Course IV). (3-0)** This course begins with an analysis of each Major Air Force Command and its contribution to defense policy implementation. The course concludes with an extensive study of the military justice system. Continues the emphasis on communication skills.

## Department of Agriculture

*Acting Chair and Professor-Shell. Professors-Carson, Davis, Rydl. Associate Professors-Abel, Angirasa. Assistant Professors-Hunnicut, Stapper.*

The Department of Agriculture offers programs reflecting the diversity of choices available and skills required in modern agriculture and its related professions. This dynamic, global industry uses new technologies to improve the production, management, manufacture, and distribution of food and agricultural products.

For more information, call 512/245-2130 or visit the Agriculture Department, Agriculture Building, Room 206, or our website [www.swt.edu/acad\\_depts/agric\\_dept/index.html](http://www.swt.edu/acad_depts/agric_dept/index.html)

### Majors

Undergraduates may earn the Bachelor of Science degree in Agriculture with the following majors: agricultural business and management, animal science, general agriculture with certification to teach or general agriculture without certification. Graduate students may earn the Master of Education degree with a major in agricultural education.

**Agricultural Business and Management** reaches far beyond the farm to encompass all the activities involved in bringing food and fiber to consumers. Students may pursue three specializations with this major: Agribusiness operations, Agricultural systems management or Horticultural business.

*Agribusiness operations* students learn about the acquisition and use of capital, the working of the marketplace, financial institutions, and the effect of government policies on agriculture. Therefore, the agribusiness operations specialization includes courses in agricultural finance, marketing and policies dealing with resource use as well as courses in technical agriculture and general studies.

*Agricultural systems management* integrates and applies engineering technology, agricultural sciences, and business. It prepares graduates for careers in technical fields and engineering such as agricultural machinery and power systems, electrical energy systems including sensors and controls, agricultural structures, surveying, and environmental systems including water utilization and quality. Students are involved with ongoing research, farm power and machinery, and precision farming and global positioning systems. Graduates are expected to assume positions of leadership and responsibility in careers such as product testing and service management, agricultural sales and services, and agricultural production systems.

*Horticultural business* as a specialization teaches management of commercial establishments and institutions that produce ornamental plants such as greenhouses and nurseries, floral shops and plant therapy businesses. The curriculum also contains specialized courses in horticulture that utilize rooftop greenhouses at the Agriculture Building and the laboratory facilities at the 17-acre Horticulture Center near campus.

**Animal Science** is the study of all aspects of the livestock and poultry industries including commercial production and management; food processing; and animal feed/animal health including nutrition, biotechnology and veterinary medicine. Involvement of students in ongoing faculty research prepares graduates for careers in reproductive physiology, applied animal genetics and live animal evaluation, as well as other areas of the livestock industry.

**General Agriculture (without certification)** provides a broad exposure to agriculture. With this curriculum, students may expect to manage a ranch or a farm, or work in any career that requires a general education such as extension, banking or government service.

**General Agriculture (with certification to teach)** is a comprehensive educational program concerned with the broad field of agriculture. Emphasis in the curriculum is on production techniques, managerial skills and competencies necessary to function as agricultural scientists, educators, or agricultural managers in today's complex agricultural industry. Agricultural science teachers are certified to teach in grades nine through twelve in the public schools of Texas. See an advisor for course requirements.

### Minors

Four minors are available in agriculture. A minor in agriculture is ideal for someone majoring in the life sciences, family and consumer sciences, or in any discipline where knowledge of the food and fiber industry would be beneficial. To arrange for an agricultural minor, see the department chair in Room 206, Agriculture Building. Specific course requirements are listed on page 71.

### Pre-Professional Program in Pre-Veterinary Science

The department supervises the pre-veterinary science program which provides two years of specialized course work for students planning to enter veterinary school. Specific course requirements and additional information are on page 77.

### Internship

Students must apply for internships to the departmental internship committee a semester in advance and meet minimum grade point average and course prerequisite requirements. For specific information about internships, contact the chairman of the internship committee or the department chair.

### General Requirements

1. Students cannot enroll in upper level (3000 or 4000) agriculture courses until they have successfully completed MATH 1315 or 1319 and CHEM 1410.

2. ASD 1110 and AG 2390 must have been successfully completed in the first 45 college credit hours.

### The Freshman Year:

The courses specified below form a common freshman year to be taken by all majors in the department.

#### Freshman Year Hours

##### Agricultural Service and

Development 1110.....	1
Agriculture 1445, 2390.....	7
*Biology 1410 .....	4
Chemistry 1410.....	4
Speech Communication 1310.....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Phy. Fitness Perspective (2 courses) .....	2

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Total	34
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\*Systems management students may wish to take Physics 1410 and 1420 to satisfy the general studies laboratory science requirement.

### Bachelor of Science in Agriculture Major in Agricultural Business and Management (Minimum required: 128-131 semester hours)

Sophomore Year	Hours	Junior Year	Hours
Agriculture 2313 or 2379 .....	3	Agriculture 3426 .....	4
Agriculture 2373, 2383.....	6	Agribusiness Core .....	6
Agribusiness Core.....	9-10	Specialization .....	9-10
English 3303 .....	3	Political Science 2310, 2320 .....	6
Literary Perspective .....	3	Electives .....	6
Mathematics 1315 or 1319 .....	3	Total	31-32
Philosophy 1305 .....	3		
Social Science Perspective .....	3		
Total	33-34		

Senior Year	Hours
Agribusiness Core.....	6
Specialization .....	6-7
Agricultural Service and Develop- ment 4301 (Capstone Course) .....	3
Art, Dance, Music, or Theatre 3313 .....	3
International Perspective (Ag 3319).....	3
Electives .....	9
Total	30-31

Please see advisor for suggested courses.

### Agribusiness Core

Required core courses: Agriculture 3351, 3352, 3353 or 3375, 4380. 3317 or 3318, Accounting 2361, Math 1329 or 2321 or 2417. Students are encouraged to enroll in 1000 and 2000 level courses in the sophomore year.

### Agricultural Business and Management Specializations

Select one of the following:

**Agribusiness Operations:** Accounting 2362, Agriculture 4381, 4383, Economics 2310, 3314

**Agricultural Systems Management:** Agriculture 3310, 3353, 3455, 4361, Physics 1420

**Horticultural Business:** Agriculture 3304, 3305, 3306, 3427, and 4300 or 4302

**Bachelor of Science in Agriculture  
Major in Animal Science  
(Minimum required: 129-130 semester hours)**

<b>Sophomore Year</b>	<b>Hours</b>
<b>Agriculture 2313, 2373, 2383</b>	<b>9</b>
Chemistry 1420.....	4
Literary Perspective .....	3
Mathematics 1315, 2321.....	6
Philosophy 1305 .....	3
Biology 1420 .....	4
Social Science Perspective .....	3
<hr/>	
Total	32



<b>Junior Year</b>	<b>Hours</b>
Agriculture 2421, 3314 3321, 3351, 3426.....	17
Agriculture 3301 (or *Biology 3450) .....	3-4
Chemistry 2330.....	3
Political Science 2310, 2320 .....	6
English 3303.....	3
Total	32-33

Senior Year	Hours
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Agriculture 3325, 3331 4325, 4326, 4328, 4330 .....	18
Agricultural Service and Develop- ment 4301 (Capstone Course) .....	3
Art, Dance, Music, or Theatre 3313 .....	3
Biology 3440 or 4423 .....	4
International Perspective (Ag 3319).....	3

Total	31
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\*Prerequisite: Biology 2460

**Bachelor of Science in Agriculture**  
**Major in General Agriculture**  
**(Minimum required: 132 semester hours)**

Notes:

1. A teaching certificate is available with this degree
2. For certification requirements, please see a departmental advisor.

Sophomore Year	Hours
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Agriculture 2373, 2383, 2313 or 2379.....	9
General Agriculture Core.....	6
English (Literature), English 3303 .....	6
Mathematics 1315, 2321.....	6
Philosophy 1305 .....	3
Social Science Perspective .....	3

Total	33
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<b>Junior Year</b>	<b>Hours</b>
Agriculture 3426.....	4
General Agriculture Core.....	13
Electives .....	9
Political Science 2310, 2320 .....	6
<hr/>	
Total	32

<b>Senior Year</b>	<b>Hours</b>
General Agriculture Core.....	15
Electives .....	9
Agricultural Service and Development 4301 (Capstone Course) .....	3
Art, Dance, Music, or Theatre 3313 .....	3
International Perspective (AG 3319) .....	3
<b>Total</b>	<b>33</b>

### **General Agriculture Core:**

Core requirements are Agriculture 2374, 3310, 3427, 4325, 4326, 3317 or 3318, 3353 or 4361, 4310, plus six (6) hours of upper level courses in one of the agricultural areas shown below and three (3) hours from one of the remaining areas: animal science, agricultural systems management, agribusiness operations, or horticultural business.

Concurrent Endorsements for Agricultural Science and Technology: Students completing certification requirements in General Agriculture may secure additional pre-employment program endorsements by completing the following courses:

**General Agricultural Mechanics (PEL):** Agriculture 3375, and 4371E or 3455

**Agricultural Power and Machinery (PEL):** Agriculture 4371, 3375

**Horticulture (PEL):** Agriculture 3304, 4300

### **Courses in Agricultural Service and Development (ASD)**

**1110 (AGRI 1131) Careers in Agri-Business and Industry. (1-0)** Career information and opportunities in the Agricultural World of Work will be emphasized. Qualifications and employment opportunities in Texas will be stressed.

(WI) **3205 Principles of Agricultural Development. (2-0)** The principles and concepts of community leadership and development in changing urban and non-urban settings. Emphasis will be given to leadership styles and approaches, community development processes, and the educator's role in the change process.

(WI) **4212 Program Building. (2-0)** This course will focus on program and curriculum development in agricultural education settings. Primary course elements will include determining program and curriculum goals and objectives, implementing the program, and curriculum evaluation.

(WI) **4301 Professional Development in Agriculture. (3-0)** This course requires students to select a topic of current interest appropriate to the major. Critical analysis of the situation including both positive and negative aspects will be encouraged. Findings will be presented in both oral and written form. (Capstone Course)

(WI) **4311 Agriculture Instructional Methods. (3-0)** Classroom management, daily lessons planning, teaching techniques, teacher reports and records, care and use of teaching aids, and evaluation of activities in a complete program of vocational agriculture.

(WI) **4681 Student Teaching in Agricultural Science and Technology. (0-6)** Planning for teaching agricultural science in selected schools in Texas. Prerequisite: Senior classification.

## Courses in Agriculture (AG)

**1445 (AGRI 1419) Animal Husbandry. (3-2)** An introductory course designed to acquaint students with the importance of the livestock industry. A study of the types and breeds; market classes and grades of beef cattle, swine, sheep, goats, horses, and poultry; attention will be given to breeding, judging, care, and management.

**2313 Agronomic Crops. (2-2)** A study of the production, harvest practices, storage, and use of cereal and feed grains, fiber crops, forages, and other related crops requiring special technology.

**2345 Horse Management. (2-2)** A course designed as a broad but thorough coverage of most areas of horse husbandry and production, including anatomy, physiology, breeding, feeding, training, and health care. Laboratory sessions are designed to acquaint the student with modern methods of breeding, training, and care of the horse.

**2367 Animal Ultrasonography. (2-2)** A study of current developments and utilization of animal ultrasonography technology in agriculture. Hands-on training in animal growth and development, animal breeding, animal handling and management, animal reproduction, computer technology and data interpretation.

**2373 Introduction to Agricultural Engineering. (2-2)** An introductory course designed to acquaint students with a wide range of concepts, principles and applied technologies in agricultural engineering. A problem solving course.

**2374 Metals and Welding Processes for Agriculture. (2-2)** Principles and practices of applied metallurgy and welding. The course emphasizes the management of the technologies and techniques associated with Oxy-fuel welding and cutting. Shielded Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW), and Plasma Arc Cutting (PAC).

**2379 (AGRI 1315 & HORT 1301) General Horticulture. (2-2)** A survey of the general field of horticulture; a study of the principles and practices of propagation; the growth and fruiting habits of horticultural plants; and the culture, harvesting, handling, and utilization of fruit. Prerequisite: Biology 1410.

**2383 (AGRI 2317) Introduction to Agricultural Economics. (3-0)** The role of agriculture in the general economy; the study of basic economic concepts with their application to the agricultural firm; the structure and operation of the marketing system; the functional and institutional aspects of agricultural finance; international trade; and government farm programs.

**2390 (AGRI 1309) Computer Applications in Agriculture. (2-2)** Introduction to computers and computer technology; operation and application of the computer in production agriculture and agricultural business, services and industries. Includes characteristics of computer hardware and software, accessing and using the computer in agriculture.

**2421 Range Forage and Pasture Crops. (3-2)** Production, utilization and management of major range and forage plants in production systems that will meet the nutritional needs of both wild and domestic animals on a sustained basis.

(WI) **3301 Genetics of Livestock and Plant Improvement. (3-0)** Fundamental principles of genetics and their application to higher plants and animals. The physical basis of Mendelian inheritance, expression and interaction of genes, gene frequency, linkage, sex linkage, inbreeding, line breeding, and crossbreeding as applied to selection indices for livestock and plants.

**3304 Propagation of Horticultural Plants. (2-2)** Principles and practices of propagating ornamental plants, vegetables, and fruits by sexual and asexual methods including germination of seed, layerage, graftage, division, cuttage, bulbs, corms, and other vegetative plant structures. Study of physical, physiological and environmental factors affecting propagation of ornamental plants.

**3305 Plant Materials for Outdoor Landscapes. (2-2)** Study of herbaceous and woody plant material including fruit and ornamental trees, shrubs, annuals, perennials, and ground covers. Their identification, nomenclature, and use in the planning and development of home landscapes. Basic principles and practices of landscape construction and maintenance such as site preparation, transplanting operation, control of plant pests, and pruning practices are included.

(WI) **3306 Flowers and Plants for Interior Design. (2-2)** Study of flowers, cut flowers, foliage and blooming pot plants to enhance the interior design of homes and businesses including their identification, cultural requirements, uses, diagnoses and corrective measures of disorders. Basic principles of flower arrangement and the preparation of floral and plant decoration as used in interior design.

**3310 Internal Combustion Engines. (2-2)** To include principles of 2 stroke and 4 stroke cycle engines, ignition and combustion types including injection systems. Components including power and power transmissions and hydraulic systems to be addressed. Prerequisites: Math 1315 and AG 2373.

**3311 Agricultural Practices and Pollution Control. (2-2)** Principles and practices of applied physical, chemical, and biological control of air, soil, and water pollution arising from production and processing of agricultural products. Prerequisites: Chemistry 1410, Math 1315, AG 2373 and 2390.

**3314 Animal Health and Disease Control. (3-0)** A course designed to enable the animal science student to understand basic veterinary principles as applied to prevention of disease in domestic livestock. Common diseases of livestock are considered, with emphasis on sanitation and modern preventative methods concerned with keeping livestock healthy. Prerequisite: AG 1445.

**3317 Farm Management. (2-2)** Tools and techniques which are basic to the study of farm organization and decision making, the wise allocation of factors of production, the keeping of records, and income tax management. Prerequisites: AG 2383 and 2390, Math 1315.

**3318 Agricultural Business Management. (3-0)** Introduction to the institutions and functions in agribusiness. The institutional structure of the agribusiness sector such as the feed, farm machinery and equipment, farm chemicals, financial institutions and private and public agri-services will be delineated. The second part of the course will introduce and develop the various functions such as organizational behavior, financial management, market management and human resource management. Prerequisites: AG 2383 and 2390 or consent of instructor.

**3319 International Food and Fiber Systems. (3-0)** Presents the food and fiber system from an international perspective. Analysis of food production and consumption patterns under different world economic systems, causes of surpluses and shortages throughout the world; the role of trade in solving food and agricultural problems. Outlook and situation for food and fiber is discussed for both developed and developing nations, and impact of U.S. food policy on world trade flows is presented.

**3321 Range Management. (3-0)** Practical problems met in managing native pastures and rangelands. Attention to determining range condition and proper stocking rates, methods of handling livestock on the range, range reseeding, brush control, and poisonous plants. The ecological and physiological response of range vegetation to grazing.

(WI) **3325 Animal Nutrition. (3-0)** Principles of animal nutrition with emphasis on digestion, absorption, metabolism, and function of nutrients; estimation of feedstuff nutritive value; and requirements of animals. Prerequisites: Chemistry 1410 and 1420 or 1430, AG 1445 or consent of instructor.

**3329 Economic Entomology. (3-0)** A study of the most common insects of field crops, fruits, vegetables, and farm animals; life history, methods of attack, damage, and means of preventing and controlling. Collection and mounts of insects will be made.

**3331 Reproduction in Farm Animals. (2-2)** An examination of the anatomy and physiology of reproductive systems of livestock of economic importance. Attention is given to reproductive failure and disease. The laboratory includes pregnancy testing, semen collection and evaluation, artificial insemination techniques, and evaluation of breeding records. Prerequisite: AG 1445.

**3345 Livestock Selection and Evaluation. (2-2)** Detailed consideration of the factors involved in the selection and evaluation of beef cattle, sheep, swine, rabbits, goats, and chickens. Emphasis will be placed on the care, grooming and exhibition of livestock projects.

(WI) **3351 Agricultural Marketing and Sales. (3-0)** A study of the food marketing system and farm input sales; includes the functional systems approach that integrates the agricultural input industries into a discussion of food marketing; takes a micro approach to the development of marketing management skills needed in agribusiness; and provides a critical outlook on issues ranging from inputs to final food products. Prerequisites: AG 2383, Math 1315.

**3352 Quantitative Methods in Agricultural Economics. (3-0)** Principles involved in collection, tabulating and analyzing agricultural data. Topics include sampling procedures, questionnaire development, descriptive analysis of data, correlation, prediction and forecasting and tests of significance. Simple computer programs will be stressed for class exercises during the course. Prerequisites: AG 2383 and 2390, Math 1315.

**3353 Agricultural Structures and Environment. (2-2)** Principles and practices associated with structural components, selection, materials of construction, heat and moisture control, and the environmental issues of waste management systems; a problem solving course. Prerequisites: Math 1315, AG 2373 and 2390. Recommended: TECH 1413 and 2310.

**3375 Agricultural Machines and Equipment. (2-2)** The optimization of the equipment phases of agricultural production and processing. Emphasis will be placed on management and decision-making principles concerned with the efficient selection, operation, repair, maintenance, and replacement of machinery and equipment. Prerequisites: Chemistry 1410, Math 1315, AG 2390

**3426 Soil Science. (3-2)** The fundamental principles of soil science to acquaint the student with some physical, chemical, and biological properties of the soil. Prerequisite: Chemistry 1410.

(WI) **3427 Environmental Soil Management Systems. (3-2)** Management of soils as pertaining to their place in the environment. Special emphasis will be given to the role of soil in conventional agricultural systems, natural resource systems, waste management systems, and reclaimed and artificial soil systems. Prerequisite: AG 3426.

**3455 Land Surveying. (3-2)** Engineering practices used in plane and geodetic surveying including differential and profile leveling, topographic, land, boundary and cadastral, and construction surveys. Laboratory exercises include use of dumpy levels, transits and total stations, and GPS (Global Positioning System) total station with RTK (real time kinematic). Planimeters and stereoscopes are used in analyzing aerial maps. Prerequisites: Math 1315 or Math 1317 or Math 1319, AG 2373, AG 2390.

(WI) **4185 Current Problems in Technical Agriculture. (1-0)** A course for advanced undergraduates to study subject matter of special interest in agriculture. Problems in agronomy, economics, animal science, plant science, and farm mechanics may be selected. Prerequisite: Approval by department chair. May be repeated for up to three semester hours credit. Course may not be taken for graduate credit.

(WI) **4300 Greenhouse and Nursery Management. (2-2)** Planning greenhouses for commercial and home use; plant-nursery layouts. Study of the physical and economic factors affecting the production of plants in the greenhouse and other forcing structures, and in the field; management techniques used in the production and marketing of greenhouse and nursery plants.

(WI) **4302 Fruit and Vegetable Crop Production. (2-2)** Factors influencing small-fruit and tree-fruit and vegetable crop production in the field including root stocks, varieties, soil, planting, transplanting, irrigating, fertilizing, pruning, insects, diseases, nematodes, weeds, chemicals, harvesting, storing, and marketing; greenhouse production of certain vegetables.

**4310 Agricultural Internship. (0-6)** Supervised on-the-job experience in an agriculturally related business or agency. This course may be repeated for credit with approval of the department chair or advisor. See department chair or advisor for prerequisites.

**4315 Fertilizers and Soil Productivity. (2-2)** The principles of fertilizer use for maintenance of soil productivity. Fundamentals of crop producing power of soils will be discussed, as well as proper fertilizer preparation and proper application for greater economic returns. Restricted to those who have had AG 3426 and preferably are second-semester juniors or seniors.

(WI) **4322 Range Improvement Practices. (2-2)** A study of the various techniques available for increasing the productivity of rangelands including the use of grazing systems, range seeding, herbicides, prescribed burning, range fertilization and mechanical treatments of the land surface.

**4325 Feeds and Feeding. (2-2)** Study of feedstuffs used in livestock enterprises. Application of basic nutrients to the needs of different species of livestock. Formulating rations, methods of feeding, feed control laws, and feeding investigation.

(WI) **4326 Advanced Animal Husbandry-Ruminants. (3-0)** The application of scientific and technological advances to production and management in ruminant animal production and management.

**4328 Advanced Animal Husbandry-Nonruminants. (3-0)** Application of basic principles in the production and management of nonruminant animals. Scientific and technological advances with emphasis on overall management, health care, nutrition, genetics, physiology, and marketing of nonruminant animals.

**4330 Food Technology: Processing Meats. (2-2)** Evaluation and grading of carcasses; wholesale and retail cuts of beef, pork, lamb, and poultry. Emphasis on quality controls, testing of finished products that have been frozen, cured, fried, pickled, and canned.

4343 Organization and Management of Agricultural Laboratories. (3-0) **Instructional programs involving laboratory equipment and facilities will be examined. Curriculum, teaching methods, equipment and facility management practices including various aspects of safety, tool management, inventory and security are emphasized along with facilities layout planning. Prerequisite: AG 2390.**

**4361 Agricultural Electrification. (2-2)** Electrical fundamentals applied to agricultural production and processing. Circuits, power, energy, wiring design, and motor fundamentals; selection, installation and operational characteristics. Sensors and control devices including switches, relays, timers, and circuit breakers will be studied.

**4371 Special Topics in Agricultural Mechanics**

Study of selected topics not currently available in existing courses. Topics to be considered will be taken from the following:

**4371A Advanced Farm Power and Machinery (3-0)**

**4371B Water Utilization and Management (3-0)**

**4371C Energy Use and Management in Agriculture(3-0)**

**4371D Agricultural Structures Design (3-0)**

**4371E Agricultural Materials Handling (3-0)**

**4380 Agricultural Finance. (3-0)** Principles, methods and techniques of appraising agricultural real properties for loans, purchase and sale. Techniques for financial analysis including capital budgeting, sources of loans for agri-business, analysis of financial statements, risk, and uncertainty in agriculture. Prerequisites: Math 1315 and AG 2383.

(WI) **4381 Agricultural Policy. (3-0)** Identification and analysis of governmental programs and policies affecting the production and marketing of agricultural products. An economic evaluation of alternative policies and their application for farmers, consumers and agribusinesses will be considered. Prerequisite: AG 2383.

(WI) **4383 Agricultural Resource Economics. (3-0)** Economic concepts and institutional factors relating to the use of agricultural resources such as land, air, water, energy, space, etc. Emphasis is on the conservation of resources and the environmental interactions resulting from the use of natural resources for agricultural production. Prerequisite: AG 2383, Math 1315 Or 1319, or consent of instructor.



## Department of Criminal Justice

*Acting Chair and Professor-Mullins. Professors-Pollock. Associate Professors-Becker, Jamieson, McLaren, Mijares, Perkins, Smith, Stone. Assistant Professors-Henson, Supancic. Instructors-Blanks, Spencer*

The Department of Criminal Justice offers courses leading to a Bachelor of Science degree in Criminal Justice with majors in law enforcement, corrections, and criminal justice.

This degree program prepares students to pursue advanced academic degrees and to serve the community in the operation and management of criminal justice agencies which include state, county, and municipal law enforcement; probation; courts; institutional corrections; parole; and related agencies. The program is founded on an interdisciplinary and academic approach to the role of criminal justice in the maintenance of social order in a democratic society.

Students pursuing a degree in criminal justice should be willing to meet the standards required of such a career. The majority of criminal justice agencies require sound academic preparation, psychological stability, physical agility, and a record free of criminal or excessive traffic offenses.

No more than 21 hours in criminal justice may be transferred in from a two-year college. If the two-year college is in the State of Texas, the 21 hours must be composed of the four criminal justice core courses (or their equivalents) and nine hours in either the law enforcement area CJ 2310, CJ 2315, and CJ 2330 (or their equivalents) or in the corrections area CJ 2310, CJ 2355, CJ 2366 (or their equivalents).

For more information, call 512/245-2174 or visit the Criminal Justice Department, Hines Academic Center, Room 120, or our website [www.cj.swt.edu/](http://www.cj.swt.edu/)

## General Studies

See requirements on page 60.

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NOTE: Math 1315 may be a prerequisite for other required courses.

## Other Degree Requirements—All Majors

### Criminal Justice Core

Criminal Justice 1310, Introduction to Criminal Justice  
Criminal Justice 2324, Crime in America  
Criminal Justice 2350, The Courts and Criminal Procedure  
Criminal Justice 2360, Fundamentals of Criminal Law

Upper Division core courses listed under “Requirements for Each Major”

### Major Requirements

**Free Electives (minor if desired)**

## The Five Major Options in Criminal Justice:

The student may select a major in law enforcement, corrections, or criminal justice. The law enforcement and corrections majors include optional internships. Students selecting an internship option must meet criteria described under “Requirement for Internship” which is set out below. The criminal justice major includes the development of advanced research and writing skills and includes different interdisciplinary course work.

## Requirements for Internship:

A student must meet the following requirements before being allowed to enroll in an internship course: SWT GPA of 2.25, CJ GPA of 2.50, completion of 93 college course work hours (including 21 in CJ), English 1310 and 1320, CJ 3346, History 1310 and 1320, Communications 1310, Math 1315 or 1319 and Math 2328 or CJ 3347, Political Science 2310 and 2320, 7 hours of Natural Science. Lab fee and permission of Internship Coordinator also required.

## Bachelor of Science in Criminal Justice Majors in Criminal Justice, Corrections, Law Enforcement (Minimum required: 128 semester hours)

Freshman Year	Hours	Sophomore Year	Hours
Criminal Justice Core 1310, 2324, .....		Criminal Justice Core 2350 .....	3
2360 .....	9	Literary Perspective .....	3
English 1310, 1320 .....	6	Major Requirements	
General Studies 1100 .....	1	(Sophomore Level) .....	9
History 1310, 1320 .....	6	Mathematics 1315 or 1319 .....	3
Natural Science .....	7-8	Philosophy 1305 .....	3

Psychology 1300 .....	3	Phy. Fitness Perspective (two courses).....	2
Total	32-33	Political Science 2310, 2320 6	
		Sociology 1310.....	3
		Total	32
<b>Junior Year</b>	<b>Hours</b>	<b>Senior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3	Capstone Course.....	3
International Perspective Course. ....	3	Major Requirement and Electives .....	29
Major Requirement and Electives.....	19-20	Total	32
Speech Communication 1310 .....	3		
CJ 3347 or Mathematics 2328 .....	3		
Total	31-32		

### Requirements for Each Major:

#### (1) LAW ENFORCEMENT (INTERNSHIP OPTION)

Required Criminal Justice Core and 2310, 2315, 2330, 2355, 3300, 3323, 3346, 4310, 4350, 4301 and 4302.

#### INTERDISCIPLINARY COURSE WORK:

Psychology 1300, Sociology 1310 (One of these courses may be counted in Social Science Perspective-General Studies.)

Select six hours from: Political Science 3311, 3314, (or Criminal Justice 4332), Psychology 3315, 3331 (or Sociology 3319), Sociology 3325, 3327, 3343, or 3347

Three hours of Statistics: (CJ 3347 or Math 2328)

Computer literacy: CS 1308 or equivalent

#### (2) LAW ENFORCEMENT (WITHOUT INTERNSHIP)

Required Criminal Justice Core and 2310, 2315, 2330, 2355, 3300, 3346, 3323, 4310, 4350, 4365, three semester hours advanced criminal justice electives.

**INTERDISCIPLINARY COURSE WORK:**

Psychology 1300, Sociology 1310 (One of these courses may be counted in Social Science Perspective-General Studies.)

Select six hours from: Political Science 3311, 3314 (or Criminal Justice 4332), Psychology 3315, 3331 (or Sociology 3319), Sociology 3325, 3327, 3343, or 3347.

Three hours of Statistics: (CJ 3347 or Math 2328)

Computer Literacy: CS 1308 or equivalent

(3) **CORRECTIONS (INTERNSHIP OPTION)**

Required Criminal Justice Core and 2310, 2355, 2366, 3300, 3323, 3325, 3346, 4310, 4301, 4302 and 4352.

**INTERDISCIPLINARY COURSE WORK:**

Psychology 1300, Sociology 1310 (One of these courses may be counted in Social Science Perspective-General Studies.)

Select six hours from: Political Science 3311, 3314 (or Criminal Justice 4332), Psychology 3315, 3331 (or Sociology 3319), Sociology 3325, 3327, 3343, or 3347.

Three hours of Statistics: (CJ 3347 or Math 2328)

Computer Literacy: CS 1308 or equivalent

(4) **CORRECTIONS (WITHOUT INTERNSHIP)**

Required Criminal Justice Core and 2310, 2355, 2366, 3300, 3323, 3325, 3346, 4310, 4352, 4365, three semester hours advanced criminal justice electives.

**INTERDISCIPLINARY COURSE WORK:**

Psychology 1300, Sociology 1310 (One of these courses may be counted in Social Science Perspective-General Studies.)

Select six hours from: Political Science 3311, 3314, (or Criminal Justice 4332), Psychology 3315, 3331 (or Sociology 3319), Sociology 3325, 3327, 3343, or 3347.

Three hours of Statistics: (CJ 3347 or Math 2328)

Computer Literacy: CS 1308 or equivalent

(5) **CRIMINAL JUSTICE**

Required Criminal Justice Core and 2310, 2355, 3300, 3323, 3346, 4310, 4332, 4350 or 4352, 4365

**INTERDISCIPLINARY COURSE WORK:**

Psychology 1300, Sociology 1310, Psychology 3315, English 3311

Three hours of Statistics: (CJ 3347 or Math 2328)

Computer literacy: CS 1308 or equivalent and 15 hours selected from the fol-

lowing courses: CIS 3370; Psychology 3353; Management 3303, 4375; Speech Communication 3319; Philosophy 1330, 2330; Political Science 3318, Sociology 3325.

**Courses in Criminal Justice (CJ)**

**1310 (CRIJ 1301) Introduction to Criminal Justice. (3-0)** History and philosophy of criminal justice: ethical considerations, crime defined, overview of criminal justice system, law enforcement, court system, prosecution and defense, trial process, and corrections.

**2310 (CRIJ 2328) Police Systems and Practices. (3-0)** Police profession: organization of law enforcement systems, the police role, police discretion, ethics, police-community interaction, and current and future issues. Prerequisite: Criminal Justice 1310.

**2315 (CRIJ 2323) Legal Aspects of Law Enforcement. (3-0)** Police authority and responsibilities: constitutional constraints, laws of arrest, search, seizure, and police liability. Prerequisite: Criminal Justice 1310.

**2324 (CRIJ 1307) Crime in America. (3-0)** American crime problems: historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime.

**2330 (CRIJ 2314) Criminal Investigation. (2-2)** Investigative theory: collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences, case and trial preparation. Prerequisite: Criminal Justice 1310.

**2350 (CRIJ 1306) The Courts and Criminal Procedure. (3-0)** Judiciary in the criminal justice system: structure of American court system, prosecution, right to counsel, pre-trial release, grand juries, adjudication process, types and rules of evidence, and sentencing. Prerequisite: Criminal Justice 1310.

**2355 (CRIJ 2313) Correctional Systems and Practices. (3-0)** Corrections in the criminal justice system: organization of correctional systems, correctional role, institutional operations, alternatives to institutionalization, treatment and rehabilitation, and current and future issues. Prerequisite: Criminal Justice 1310.

**2360 (CRIJ 1310) Fundamentals of Criminal Law. (3-0)** A study of the nature of criminal law: philosophy and historical developments, major definitions and concepts, classification of crime, elements of crimes and penalties using Texas Statutes as illustrations, and justifications of and defenses to criminal responsibility.

**2366 Community Corrections and Rehabilitation. (3-0)** A study of community programs for adult and juvenile offenders, treatment modalities in various correctional settings, and the administration, legal issues, and future trends associated with community-based corrections in America. Prerequisite: Criminal Justice 1310.

(WI) **3300 Juvenile Justice. (3-0)** A study of the juvenile justice process to include both the specialized juvenile law and the role of the courts, police and corrections in juvenile justice. Prerequisite: Criminal Justice 1310.

**3323 Mid-Level Management in Criminal Justice Agencies. (3-0)** Introduction and overview of the organizational theories of classical behavioral, and systems management concepts. Included in the course content are an analysis of the functions of management in modern CJ organizations, internal and external environmental factors, individual & group dynamics, motivation, and leadership styles. Prerequisites: Criminal Justice 1310 and 2310 or 2355.

**3325 Penology. (3-0)** Role of the institution in the process of corrections including the philosophy of imprisonment, the inmate subculture and special problems and programs in institutions. Prerequisite: Criminal Justice 1310 and 2355.

(WI) **3346 Research in Criminal Justice. (3-0)** Analysis of criminal justice research, survey methods, and the utilization of research in criminal justice. Prerequisite: Criminal Justice 1310 and 2324, CS 1308 or equivalent and Statistics (Math 2328, Psychology 3301, Sociology 3307 or equivalent).

**3347 Statistics For Criminal Justice. (3-0) The theory and application of statistical inferential techniques, and correlation and regression for behavioral science data and its applications in Criminal Justice. Emphasis is on the collection, analysis, and interpretation of statistical data in criminal justice settings.**

(WI) **4301-4302 Internship I and II. (0-6)** Field service training in public and private criminal justice agencies at the federal, state and local levels. The internship is designed to provide actual work experience, observation, and analysis in the student's chosen career field. (See page 92 under "Requirements for Internship").

(WI) **4310 Special Problems in the Criminal Justice System. (3-0)** A study of contemporary problems in administration, management, organization and operation of criminal justice agencies. Prerequisite: Completion of all 2000 level required courses in Criminal Justice. (Capstone Course).

(WI) **4314 National and International Crime Problems. (3-0)** An analysis of threats to national and international security including terrorism, and drug trafficking. Special attention will be given to organized crime and national and international law enforcement efforts.

**4321 Occupational Crime. (3-0)** A study of the problems of organized and upper social status criminal activities with emphasis on statutes and their application to fraud, embezzlement, deceptive trade practices and illegal trade practices.

(WI) **4326 Women and Criminal Justice. (3-0)** This course is designed to explore women's involvement in three primary areas of criminal justice-as victims, criminals and practitioners employed in criminal justice agencies. It will analyze the impact of sex and gender on such things as criminological theory, sentencing, prison subcultures victimization and career choices. Prerequisite: junior standing.

(WI) **4327 Ethics of Social Control. (3-0)** This course is designed to explore moral decision making. Basic moral or ethical frameworks are applied to ethical decision which often need to be made in the criminal justice system. Prerequisite: junior standing.

**4332 Advanced Criminal Justice Management. (3-0)** A critical analysis of the nature of organizations within the criminal justice system. An analysis of theories of organizations and of organizational changes within law enforcement agencies. An examination of the quantitative data gathered by the Criminal Justice System and its effective use and presentation. Prerequisites: Criminal Justice 1310 and 2310 or 2355.

(WI) **4350 Contemporary Legal Issues. (3-0)** An in-depth study of recent developments in criminal law and procedure. Their effects upon the criminal justice agency official in society will be given special attention. Includes specific case studies with emphasis on analyzing factual situations and legal issues. Prerequisites: Criminal Justice 1310, 2310 and 2315.

(WI) **4352 Contemporary Legal Issues in Corrections. (3-0)** A study of the developing body of law defining the rights and duties of persons confined in penal institutions with equal emphasis on legal issues associated with probationers, parolees, and similar status's within the corrections branch of the criminal justice system. Prerequisite: Criminal Justice 1310 and 2355.

**4362 Readings in Criminal Justice. (3-0)** An individualized readings course tailored to the academic and professional interests and needs of the student. Emphasis is placed on developing in-depth knowledge of selected criminal justice subjects through directed research. (Permission of instructor is required for course registration.)

(WI) **4365 Comparative Criminal Justice. (3-0)** A survey of the organizational, administrative and philosophical principles of criminal justice systems around the world. Prerequisite: 1310 and 2310 or 2355.

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**

## Department of Family and Consumer Sciences

*Chair and Associate Professor-Friedman. Professors-Allen, Laman, Moore, Williams. Associate Professors-Garstka, Manford, Thompson, Treanor. Assistant Professors-Apple, Blunk, Crixell, Granato, Wuest.*

The Department of Family and Consumer Sciences, accredited by the American Association of Family and Consumer Sciences, offers five programs that prepare students for diverse professional roles. These five majors include family and consumer sciences, family and child development, fashion merchandising, interior design, nutrition and foods.

Family and Consumer Science majors have a choice of three different tracks: Consumer Science, Family and Consumer Sciences, and Family and Consumer Sciences with Vocational Home Economics Teacher Certification. Students choosing the Consumer Science track study family financial decisions and the role of the consumer in the economy. Students prepare for such careers as business consumer liaisons, consumer advocates, or government agency employees. In the Family and Consumer Sciences track, students take courses from all areas of Family and Consumer Sciences and select a minor. Graduates seek employment in business, the extension service, and community agencies. The teacher certification track, approved by the Texas Education Agency, certifies graduates to teach in the public schools. Secondary and/or Early Childhood Education endorsements are possible.

Family and Child Development majors work in family and child programs, and community agencies. Using an interdisciplinary approach, students focus on human development and relationships across the lifespan.

Fashion Merchandising prepares majors for careers in the merchandising and promotion of apparel, textiles, and other consumer products. Most students choose to complete a Business Administration minor.

A major in Interior Design prepares students for careers as residential and/or commercial designers. The program is accredited by the Foundation for Interior Design Education Research (FIDER), the recognized accrediting agency for this discipline. Students learn to communicate their design concepts and to solve design problems.

Nutrition and Foods majors study the selection, preparation, and consumption of foods. They prepare for careers in medical nutrition therapy, food service administration, public health nutrition programs or private practice. The program is approved by the American Dietetic Association and fulfills didactic requirements for associate membership and Texas licensing. Graduates are qualified to apply for post-graduate dietetic internships.

For more information, call 512-245-2155 or visit the Family and Consumer Sciences Department, FCS Building, Room 101 or our website [www.fcs.swt.edu/fcs\\_dept/index.html](http://www.fcs.swt.edu/fcs_dept/index.html)

## FAMILY AND CONSUMER SCIENCES CORE

To provide a common body of knowledge in Family and Consumer Sciences, all majors are required to complete:

Marriage and Family FCS 3355

Professional Family and Consumer Sciences II - FCS 4100

Two (2) Family and Consumer Sciences courses from two (2) areas outside the major to be selected from FCS 1341, 1321 or 3329, 2331 or 1332, 2367 or 3362.

\*NOTE: Family and Consumer Sciences majors must earn a grade of C or better in all Family and Consumer Sciences courses attempted within the student's designated major. \*\*General Studies, professional requirements, major, minor, and elective suggestions are specified for each major on the following charts.

## Bachelor of Science in Family and Consumer Sciences Major in Family and Consumer Sciences (Minimum required: 128 semester hours)

In addition to General Studies and departmental core requirements, the Family and Consumer Sciences major is required to take courses in all areas of Family and Consumer Sciences.

<b>Freshman Year</b>	<b>Hours</b>
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Family and Consumer Sciences	
1321, 1341, 1351, 1360, 2331	
or 1332 .....	15
Mathematics 1315, or 1316*,	
or 1319 .....	3
Phy. Fitness Perspective (one course).....	1

<b>Sophomore Year</b>	<b>Hours</b>
Family and Consumer Sciences	
1347, 2360, 2367 or 3362 .....	9
Literary Perspective .....	3
Philosophy 1305 .....	3
Phy. Fitness Perspective (one course).....	1
Political Science 2310, 2320 .....	6
Natural Science Perspective.....	7-8
FCS Elective .....	3
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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music or Theatre 3313 .....	3
Speech Communication 1310 .....	3
Family and Consumer Sciences	
2351, 3329, 3341, 3342.....	12
International Perspective .....	3
Minor .....	9
Family and Consumer Sciences	
Electives .....	3



<b>Senior Year</b>	<b>Hours</b>
Family and Consumer Sciences 3355, 3391, 4100, 4301, 4341 or 3342, 4347 .....	16
Sociology 3300.....	3
Minor, advanced .....	9
Electives, advanced.....	3

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\*Math 1316 is not accepted as a prerequisite for courses in some minors.

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Family and Consumer Sciences**  
**(Minimum required: 128 semester hours**  
**with Consumer Sciences Option)**

In addition to General Studies and departmental core requirements, the consumer science option requires specialized courses in consumer education, family and personal resource management, family finance, consumer law, family financial counseling, and family policy. Students participate in an internship in a related area. Minors for the consumer science option may be in business administration or mass communication.

## Minor in Business Administration

<b>Freshman Year</b>	<b>Hours</b>
Speech Communication 1310 .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
History 1310, 1320 .....	6
Family and Consumer Sciences	
1341, 1347, 2331 or 1332 .....	9
Mathematics 1315 or 1319 .....	3
Philosophy 1305 .....	3
Phy. Fitness Perspective (one course) .....	1

<b>Sophomore Year</b>	<b>Hours</b>
Accounting 2361, 2362 .....	6
FCS Electives .....	6
Family and Consumer Sciences 3329 .....	3
Literary Perspective .....	3
Natural Science Perspective.....	7-8
Phy. Fitness Perspective (one course).....	1
Political Science 2310, 2320 .....	6

Junior Year	Hours
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Business - select four from:

BLAW 2361, Computer Information

Systems 3370, Finance 3312,

Management 3303, Marketing

3343) ..... 12

Economics 2310, 2320 ..... 6

Family and Consumer Sciences

3341, 3342, 3362, 4303..... 12

Family and Consumer Sciences 3355 ..... 3

<b>Senior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Electives, free .....	11-12
Family and Consumer Sciences	
3391, 4100, 4301, 4341, 4347 .....	13
International Perspective .....	3

## Minor in Mass Communication

<b>Freshman Year</b>	<b>Hours</b>
Speech Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Family and Consumer Sciences	
1341, 1347, 2331 or 1332 .....	9
Mathematics 1315 or 1319 .....	3
Philosophy 1305 .....	3
Phy. Fitness Perspective (one course).....	1

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<b>Sophomore Year</b>	<b>Hours</b>
Accounting 2361 .....	3
FCS Electives .....	6
Family and Consumer Sciences 3329 .....	3
Literary Perspective .....	3
Natural Science Perspective.....	7-8
Phy. Fitness Perspective (one course).....	1
Political Science 2310, 2320 .....	6

<b>Junior Year</b>	<b>Hours</b>
Mass Communication 1301, 1313, 2319.....	9
Economics 2310, 2320 .....	6
Art, Dance, Music, or Theatre 3313 .....	3
Family and Consumer Sciences 3341, 3342, 3362, 4303.....	12
Family and Consumer Sciences 3355 .....	3



<b>Senior Year</b>	<b>Hours</b>
Mass Communication 2374, 4301, 4302.....	9
Mass Communication Elective .....	6
Family and Consumer Sciences 3391, 4100, 4301, 4341, 4347.....	13
International Perspective .....	3
Electives .....	2-3

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**Bachelor of Science in Family and Consumer Sciences  
Major in Family and Consumer Sciences  
(Minimum required: 131 semester hours  
with teaching certification)**

In addition to General Studies and departmental core requirements, the Family and Consumer Sciences major pursuing teacher certification in Vocational Home Economics is required to take from 6 to 12 semester hours in each of the following areas: nutrition and foods, family and child development, fashion merchandising, interior design, and consumer science. Students participate in student teaching for pre-professional experience. No minor is required; however, an Early Childhood Education endorsement may be obtained with the fulfillment of a required 12 additional semester hours.\*\*

Freshman Year	Hours
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Computer Science 1308, Technology 1310 or Psychology 3353 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320.....	6
Family and Consumer Sciences 1332, 1341, 1351, 1360.....	12
Mathematics 1315 or 1319 .....	3
Phy. Fitness Perspective (two courses) .....	2

Sophomore Year	Hours
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Family and Consumer Sciences 1321, 1347, *2331 or 2334 .....	9
Chemistry 1310, 1430 or Biology 1310, 1420.....	7
Speech Communication 1310 .....	3
English International Perspective .....	3
Literary Perspective .....	3
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6

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Junior Year	Hours
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Art, Dance, Music, or Theatre 3313 .....	3
Family and Consumer Sciences 2351, 2360, 2367 or 3362, 3329, 3341, 3355, 3360.....	21
Curriculum and Instruction 3310, 3325.....	6
Social Science Perspective .....	3

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<b>Senior Year</b>	<b>Hours</b>
Curriculum and Instruction,	
4332.....	3
Reading 3323.....	3
Family and Consumer Sciences,	
4100, 4301, 4681, Ag	
4311, 4343, CATE 3313D.....	19
FSC Electives .....	6

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\* Students must demonstrate competency in basic clothing construction techniques.

\*\*Early Childhood Endorsement requires: Early Childhood Education 3330, 4350, 4352, Education 4387.

**Bachelor of Science in Family and Consumer Sciences**  
**Major in Family and Child Development**  
**(Minimum required: 128 semester hours)**

In addition to General Studies and Family and Consumer Sciences core requirements, the Family and Child Development major is required to take specialized courses including infant and toddler development, child development, parent and family life education, family systems, creative activities for children, and administration of programs for young children. No minor is required. Additional courses in psychology, sociology, and special education are required.

<b>Freshman Year</b>	<b>Hours</b>
Speech Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Family and Consumer Sciences	
1341, 1351.....	6
Mathematics 1315 or 1316 or 1319 .....	3
Natural Science Perspective.....	3-4
Phy. Fitness Perspective (two courses) .....	2
Philosophy 1305.....	3

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<b>Sophomore Year</b>	<b>Hours</b>
Family and Consumer Sciences	
2331 or 2329, 2351, 2353 .....	9
International Perspective .....	3
Literary Perspective .....	3
Political Science 2310, 2320 .....	6
Natural Science Perspective.....	4
Other Requirements* .....	3
Social Science Perspective .....	3

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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Family and Consumer Sciences 3355, 3357, 3362, 4302Q.....	12
Other Requirements* .....	15
Family and Consumer Sciences Electives, Free .....	3

Senior Year Hours	
Electives, free .....	3
Family and Consumer Sciences	
4100, 4301, 4347, 4351 .....	10
Special Education 3381 .....	3
Other Requirements* .....	12
FCS Elective .....	3

**Career Path I** is designed for students who desire the option of emphasis in the Family. Students choosing this path are required to take FCS 4355, FCS 3353, FCS 4303, FCS 4341, FCS 43025, Sociology 3383 or PSY 3313 or Social Work 4320, FCS 3351 or 4352, Social Work 2375, FCS 3391, Sociology 3376b or Psychology 3332. **Career Path II** is designed for students who desire the option of emphasis in Child Development. Students choosing this path are required to take Family and Consumer Sciences 3351 (Spring), 3352 (Spring) 3354 and 4352 (Fall), Social Work 4315, ECE 4310 or 4350, Theatre 1370, a 3 hour FCS elective, FCS 4302R FCS 4303 or 3353, FCS 4355 or 4302N.

No minor is required; however, Family and Child Development majors may add a minor in Social Work or Psychology, or early childhood intervention.

For a minor in Social Work, a student must take 18 hours; including 1350, 2375, 3355, plus nine hours of Social Work electives; and excluding 3340, 3430, 3435, 4305, 4425, 4645, 4650.

For a minor in Psychology, a student must take Psychology 1300 and 18 additional hours, at least 12 of which must be advanced.

For a minor in Early Childhood Intervention, a student must take FCS 4302M, FCS 3357, FCS 4301 and 12 additional hours.

## **Bachelor of Science in Family and Consumer Sciences Major in Fashion Merchandising (Minimum required: 128 semester hours)**

In addition to General Studies and Family and Consumer Sciences core requirements, the Fashion Merchandising major is required to take specialized courses in Family and Consumer Sciences including clothing in society, textiles, apparel product analysis, fashion buying principles, historic apparel, fashion merchandising, fashion promotional strategies, and economics of the apparel industry. Students participate in an internship in a related area. Minors for the Fashion Merchandising major may be a Business Administration minor of 24 semester hours, a program with no minor, or an area which provides a suitable background for the student's career objective such as Mass Communications. A minor in Business Administration is strongly recommended. A maximum of 27 semester hours of course work from the School of Business may be applied to this degree. Students electing no minor will be required to take 12 hours of free electives and 6 hours of upper division electives.

### **Minor in Business Administration**

<b>Freshman Year</b>	<b>Hours</b>
Speech Communication 1310 .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
History 1310, 1320 .....	6
Family and Consumer Sciences 1332, 1337, 2331 .....	9
Mathematics 1315 or 1319 .....	3
Philosophy 1305 .....	3
Phy. Fitness Perspective (two courses) .....	2
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<b>Sophomore Year</b>	<b>Hours</b>
Economics 2310, 2320 .....	6
Family and Consumer Sciences 2330, 2334 .....	6
Natural Science Perspective .....	7-8
Political Science 2310, 2320 .....	6
Family and Consumer Sciences - select two from 1321, 1341, or 3362 .....	6
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<b>Junior Year</b>	<b>Hours</b>
Accounting 2361, 2362 .....	6
Art, Dance, Music, or Theatre 3313 .....	3
Family and Consumer Sciences 3330, 3331, 3332, 3355 and 4331	
International Perspective .....	3
Mass Communications 3343 or 3367 .....	3
Literary Perspective .....	3
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<b>Senior Year</b>	<b>Hours</b>
Business (select three from BLAW 2361, Finance 3312, Management 3303, Marketing 3343).....	9
Family and Consumer Sciences 3342, 4100, 4301, 4337, 4339.....	13
Computer Information Systems 3370 .....	3
Family and Consumer Sciences	
	<b>Elective 3</b>
Electives, free .....	3
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### **Bachelor of Science in Family and Consumer Sciences Major in Interior Design (Minimum required: 129 semester hours)**

In addition to General Studies and Family and Consumer Sciences core requirements, the Interior Design major is required to take specialized courses in interior design including history of furnishings, environmental housing, basic interiors, contemporary furniture and architecture, residential interiors, and commercial interiors. Students participate in an internship in a related area.

A portfolio review for all Interior Design majors is conducted by the Interior Design faculty immediately upon completion of all Family and Consumer Sciences 3322 course work. A limit of 20 students is then accepted for continuation in the Interior Design Program at that time. The purpose of the review process is to ensure that the most qualified students, evidenced by adequate skill and knowledge levels, will advance in the program. Students who lack adequate preparation may repeat Family and Consumer Sciences 3322 before continuing.

<b>Freshman Year</b>	<b>Hours</b>
ArtF 1302, ArtC 2305.....	6
English 1310.....	3
General Studies 1100.....	1
Family and Consumer Sciences 1321, 2321, 2322, 2329.....	12
Math 1315 or 1319 .....	3
Phy. Fitness Perspective (one course).....	1
Technology 1413, 3313 .....	7
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<b>Sophomore Year</b>	<b>Hours</b>
Speech Communication 1310 .....	3
English 1320.....	3
Family and Consumer Sciences 1332, 3321, 3322, 3323.....	12
Physics 1110, 1310, 1320.....	7
Technology 1320, 4310, 4313 .....	9
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<b>Junior Year</b>	<b>Hours</b>
ArtF 1303, ArtH 2301, ArtH 2302 .....	9
Art, Dance, Music, or Theatre 3313 .....	3
Literary Perspective .....	3
History 1310, 1320 .....	6
Family and Consumer Sciences 3324, 4322, 4323.....	9
Phy. Fitness Perspective (one course).....	1
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<b>Senior Year</b>	<b>Hours</b>
ArtS 2311 or 2331 or 2381 or 3322 .....	3
Family and Consumer Sciences 1341 or 3362, 3355, 3370, 4100, 4301, 4324.....	16
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Sociology 3300.....	3

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## Bachelor of Science in Family and Consumer Sciences

### Major in Nutrition and Foods

**(Minimum required: 128 semester hours)**

The curriculum is approved by the American Dietetic Association and includes all academic requirements for admission to a post-graduate dietetic internship, Approved Pre-Professional Practice Program (AP4), ADA registration, and Texas licensure.

In addition to General Studies and Family and Consumer Sciences core requirements, the Nutrition and Foods major takes courses in chemistry, administrative science, computer science, biology, and sociology. Specialized courses in advanced nutrition, diet therapy, and food service management are included. Students participate in an undergraduate internship. No minor is required; however, Nutrition and Foods majors may add a minor in Business Administration, Chemistry or Biology.

<b>Freshman Year</b>	<b>Hours</b>
<b>Chemistry 1410, 1420</b>	<b>8</b>
Computer Science 1308 or Technology 1310.....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Family and Consumer Sciences 1341, 1360.....	6
Mathematics 1315 or 1319 .....	3
Phy. Fitness Perspective (one course).....	1

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<b>Sophomore Year</b>	<b>Hours</b>
Biology 1310 .....	3
Speech Communication 1310 .....	3
Economics 2310 .....	3
Family and Consumer Sciences 2331 or 3329, 2360, 2367 .....	9
Literary Perspective .....	3
Philosophy 1305 .....	3
Phy. Fitness Perspective (one course).....	1
Political Science 2310, 2320 .....	6

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<b>Junior Year</b>	<b>Hours</b>
Accounting 2361 .....	3
Anthropology 3370.....	3
Biology 2430, 2440 .....	8
Chemistry 2130, 2330, 2450.....	8
Family and Consumer Sciences 3360, 3361, 3367.....	9
Social Science Perspective .....	3

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Senior Year	Hours
Allied Health Science 3302 .....	3
Art, Dance, Music, or Theatre 3313 .....	3
English 3303.....	3
Family and Consumer Sciences 3355, 3391, 4100, 4301, 4367, 4368.....	16
Management 3303 .....	3
Elective, Free .....	1

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Minors available in Consumer Science, Early Childhood Intervention, Family and Child Development, Family and Consumer Sciences, and Fashion Merchandising.

## Courses in Family and Consumer Sciences (FCS)

Many of the subject-matter courses in Family and Consumer Sciences are open to non-majors as electives.

**1321 Design I: Visual Awareness. (2-2)** Principles of design and color as applied to the individual and his/her environment.

**1332 (HECO 1320) Textiles. (3-0)** Consumer-oriented study of the relationship of fiber, fabric, and end-uses in clothing and home furnishings.

**1337 (HECO 2311) Fashion Fundamentals. (3-0)** The development of fashion products from conception to consumer; the industry's role in the economy; the interrelationship of primary, secondary, and retail levels within the industry; the fashion business as a career.

**1341 Consumers in the Marketplace (3-0)** An introduction to consumerism. Topics covered will include: the consumer's role in the economy; consumer responses to the pressures of the economy (credit, inflation, and savings); and an analysis of the largest consumer expenditures (housing, food, and transportation).

**1347 Family and Personal Resource Management. (3-0)** An analysis of family and personal management processes including resource identification and factors that impact on management and decision making. Contemporary issues in the field will be considered: changing family roles, one-parent families, aging, the handicapped, low income families, the one-person family, and alternate lifestyles.

**1351 Lifespan Development. (3-1)** Developmental principles underlying behavior as experienced in physical, intellectual, emotional and social changes across the lifespan. A minimum number of observations will be required.

**1360 Food Science. (2-2)** Scientific principles underlying the selection, preparation, preservation, and storage of foods.

**2321 History of Furnishings. (3-0)** Survey of historical styles of furnishings, architecture, and interiors. Egyptian to the 19th Century.

**2322 Interior Design I: Basic Interiors. (3-0)** Introductory lecture course for interior design majors analyzing the elements and principles of design as applied to interior environments. Fundamentals of professional requirements, human factors, structural and environmental systems, properties and applications of interior materials, and components of style. Prerequisite: FCS 1321.

**2329 (HECO 1325) Environmental Housing. (3-0)** Concerned with individual and family aesthetic, social, economic, and psychological values and needs specifically related to the spatial environment as an economic and social process. Emphasis is on the principles of, the resources for, and the dynamics of space planning.

**2330 Fashion Promotional Strategies I (2-2)** The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques used at the point of sale to sell merchandise to the final consumer. Prerequisite: FCS 1337 or consent of instructor.

**2331 Clothing in Society. (3-0)** The study of theories related to clothing, appearance, and fashion and their influences on verbal and nonverbal communications, gender perceptions, cultural identities, and fashion product consumption.

**2333 (HECO 1328) Clothing Construction. (2-2)** Basic clothing construction techniques. Prerequisite: FCS 1332 or consent of instructor.

(WI) **2334 Contemporary Textiles (3-0)** The study of textile product quality control issues important to manufacturers, retailers, and consumers. Emphasis is placed on techniques, evaluating cost, durability, and end use of textile products. Prerequisites: FCS 1337 and FCS 1332, or consent of instructor.

**2341 Consumer Issues and Public Policy. (3-0)** Analysis of issues and problems of consumers in the marketplace. Investigation of the impact of both the private and public sectors on economic, legislative, and regulatory policies. Prerequisite: FCS 1341.

**2342 Family Consumption. (3-0)** A study of family and individual consumption patterns; analysis of past and current levels of consumption; comparison of consumption of goods and services. Prerequisite: FCS 1341.

**2351 Child Development. (3-1)** The development of the total child from conception through adolescence. Observation in Child Development Laboratory.

**2353 Principles of Guidance: (2-2)** Theory and practice related to child guidance. Participation in Child Development Center required. Prerequisites: FCS 2351 or approval of instructor.

**2360 Food Systems (2-2) Nutrition, food science, and management principles in the planning, marketing, preparing, and serving of food as it applies to personal dietary habits. Laboratory provides opportunities to apply principles and theories under guidance and working with small student groups.**

**2367 (BIOL 1322) Principles of Nutrition. (3-0)** Principles of human nutrition with emphasis on nutrient function, requirements, and sources. Prerequisite: Three semester hours of science.

**3191 Occupational Experiences in Clothing Production, Management and Services. (0-2)** Participation in the occupational production of apparel and accessories.

**3321 Contemporary Furniture and Architecture. (3-0)** A survey of contemporary styles of furnishings, architecture, and interiors from the 19th century to the present. Prerequisite: FCS 2321.

**3322 Interior Design II: Residential Interiors. (0-6)** An advanced study in various dimensions, purposes, and characters in relation to the small and large residential space. Prerequisite: FCS 2321, 2322, 2329; Technology 3313; ArtC 2305.

**3323 Interior Design III: Commercial Interiors. (0-6)** Analyzing, furnishing, and estimating of moderate to large commercial and contract spaces. Prerequisite: FCS 3321, 3322; Technology 3313.

(WI) **3324 Professional Practices. (3-0)** A study of the business principles, ethics, and procedures for the interior designer. Prerequisite: FCS 1321, 2322, 3322.

**3329 Housing, Interior Design, and Furnishings. (3-0)** An application of the basic design principles in planning, designing, and furnishing interiors for contemporary living to reflect function, economy, beauty, and individuality for varying income levels.

**3330 Fashion Buying Principles. (3-0)** Merchandising concepts essential for buyers emphasizing fashion goods, assortment planning, and profit analysis. Prerequisite: FCS 1337, Math 1315 or 1319 or consent of instructor.

**3331 Historic Apparel. (3-0)** A chronological study of Western apparel through the ages. Emphasis on social, economic, and political influences on costume development. Prerequisite: FCS 1331 or consent of instructor.

**3332 Fashion Promotional Strategies II (3-0)** The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques initiated by the manufacturers of fashion products such as wholesaling, cooperative advertising, direct marketing, and special events. Prerequisite: FCS 2330 or consent of instructor.

**3333 Apparel Design. (2-2)** Apparel design by flat pattern techniques. Prerequisite: FCS 2333 or consent of instructor.

**3341 Family Finance. (3-0)** The study of family financial management during different stages of the family life cycle and at various income levels. Topics considered will include the use of budgeting and record keeping to achieve family economic goals; the role of credit and the need for financial counseling; economic risks and available protection; and alternative forms of saving and investments. Prerequisite: FCS 1341 or consent of instructor.

(WI) **3342 Consumer Law. (3-0)** An in-depth review of the relationship between the consumer and federal and state law and policy. Includes study of both consumer protection legislation and laws which define the consumer's rights and responsibilities. Will consider the operation of government agencies and the courts in various consumer areas as well as avenues of redress on the part of the consumer. Prerequisite: FCS 1341.

(WI) **3351 Creative Experiences: Social Studies and the Arts (3-1)** The application of methods, materials, and planning in the development of curriculum for the preschool child through music, art, literature, dramatic play and social studies. Participation in Child Development Center required.. Prerequisites: FCS 2353 or approval of instructor.

**3352 Development of Programs for Young Children. (3-0)** The study of group care programs for children including development, implementation and assessment of developmentally appropriate programs. Various theoretical and philosophical perspectives will be included.

(WI) **3353 Parent and Family Life Education. (3-0)** The study of relationships between theory and practice in family life education programs. Opportunity to develop, implement, and evaluate agencies and group programs in family life education. Prerequisites: FCS 2353, 3357, or approval of instructor.

**3354 Creative Experiences: Science and Math (3-1)** The application of methods, materials and planning in the development of curriculum for the preschool child through math, science, nutrition and outdoor play. Participation in Child Development Center required. Prerequisites: FCS 2353 or approval of instructor.

**3355 Marriage and Family. (3-0)** Universality and uniqueness of families; rational choices based on research studies in courtship, marriage adjustment, and interpersonal relations within families.

**3357 Infant and Toddlers. (2-2)** The study of infants and toddlers in home and group settings; implementation of learning strategies based on developmental principles. Directed participation in the Child Development Center. Prerequisites: FCS 2353 or approval of instructor.

**3360 Quantity Food Production Management. (2-3)** Principles and techniques of planning, procurement, production, evaluation, service, and research in Food Service Systems. Prerequisite: FCS 2360 or consent of instructor.

**3361 Food Service Systems Management. (2-2)** Principles, policies, and procedures relating to systems design, decision hierarchy, organization structure, personnel, and purchase of food and equipment. Prerequisite: FCS 2360 or consent of instructor.

**3362 Nutrition and Health. (3-0)** For non-science majors. Involves the study of the nutrients and their function in promoting health throughout the life span. Includes standards for consumer selection of a proper diet and analysis of nutrition-related health problems.

(WI) **3367 Nutrition in the Life Span. (3-0)** An in-depth study of the normal growth, development, and nutrition associated with pregnancy, infancy, childhood, adolescence, and adulthood. Information regarding nutritional problems of the elderly is included. Prerequisite: FCS 2367 and Biology 2430.

**3370 Interior Design Lighting (3-0)** The study of the relationship of natural and manufactured lighting sources to the interior environment and its inhabitants. Emphasis is on light science and technology and the effects upon health, behavior, color, and form. Application will include issues of aesthetics, energy conservation, codes, evaluation, and specifications in lighting design. Prerequisites: FCS 3322, TECH 1413, ARTC 2305, or consent of instructor.

(WI) **3390 Vocational Home Economics: Observation and Methods. (3-0)** Introduction to characteristics and philosophy of Family and Consumer Sciences. Development of curriculum through the identification of objectives, content, learning experiences and materials, and evaluation techniques. Emphasis on characteristics, problems, and special needs of various socioeconomic, ethnic, handicapped groups. Observation in school and community programs is required. Prerequisite: Curriculum and Instruction 3325.

(WI) **3391 Communication Skills and Techniques. (2-2)** Analysis of factors that influence program planning and application of program development to planning for groups or individuals with differing purposes and organizational structure. Planning, developing, and implementing the use of alternative media and methods: the use of audio-visuals; demonstration techniques; radio; and television. Special emphasis on methods suitable for use with adults.

(WI) **3392 Fundamentals of Occupational Home Economics. (3-0)** Study of the occupational programs for Home Economics: coordinated vocational academic education; vocational education for the handicapped; cooperative education; pre-employment laboratory education including curriculum development.

(WI) **3393 Occupational Experiences in Home Economics. (1-4)** Classroom study and field experiences in occupational areas of Home Economics: child care; clothing, apparel, and textiles; food production, management, and services; home furnishings; institutional and home management. Prerequisite: FCS 3392.

**4100 Professional Family and Consumer Sciences II. (1-0)** Family and Consumer Sciences in the professional world and continuing education. Opportunities, interviews, and professional ethics. Development of credentials and portfolios. Required of all seniors majoring in Family and Consumer Sciences.

**\*4101 Special Problems in Family and Consumer Sciences. (1-0)** A study of selected areas of Family and Consumer Sciences.

**4151 Family Health. (1-0)** Promoting and maintaining health for individuals and families. Relationship to public health.

(WI) **\*4301 Internship in Family and Consumer Sciences. (0-6)** Internship program in Family and Consumer Sciences-related professions, services, business, or industry. Prerequisite: Must meet school, department and program requirements. Nutrition and Foods internship does not qualify students for dietetic registration by The American Dietetic Association. (Capstone Course)

**\*4302 Topics in Family and Consumer Sciences. (3-0)** In-depth study of a current topic or issue of interest to Family and Consumer Sciences professionals in work with individuals and families. Individual topics are listed in the class schedule as 4302 with appropriate suffixes.

**4302C Regional Markets.**

**4302D International Family and Consumer Science.**

**4302I Sports Nutrition.**

**4302L Comparative Studies in Child Development.**

**4302M Introduction to Early Childhood Intervention.**

**4302N Program Administration.**

**4302P Residential Interior Design Fundamentals.**

**4302Q Adolescent Development.**

**4302R Practicum in Child Development.**

**4302S Sexuality and the Family.**

**4303 Research Procedures in Family & Consumer Sciences. (3-0)** The study and implementation of research procedures for use with family and consumer sciences programs. Includes instrument selection, recruitment and testing of subjects, coding, analysis and dissemination of data. Will include field based experiences using appropriate research procedures.

(WI) **4322 Interior Design IV: Comprehensive Interior Design. (3-0)** Advanced study of materials, components, systems, codes and other factors that relate to public health, safety, and welfare in interior environments. Lecture and application of lighting and other technologies, specifying, scheduling, budgeting, and resource conservation. Prerequisites: FCS 1332, 2322, 2329, 3322; Technology 1320.

**4323 Interior Design V: Research/Environmental Design. (0-6)** Specialized research in and application of factors impacting the interior environment. Includes design programming, space planning, finish specifying, furnishings design and detailing, and presentation strategies through creative problem-solving. Prerequisite: FCS 4322, Tech 4313.

**4324 Interior Design VI: Contemporary Interior Design Issues. (0-6)** Specialized research in interior design to include barrier free environments, medical facilities, historic preservation, international interiors, energy issues, and design for special needs. Prerequisite: FCS 1321, 2322, 3322, 3323, 4322, 4323; Technology 1413, 3313, 4313.

**4331 Fashion Buying Principles II (3-0)** A study of the roles and responsibilities of fashion merchandise buyers. Emphasis on retail buying functions, including developing merchandise plans, selecting products, negotiating terms, and monitoring performance. Prerequisites: FCS 3330, 1337, MATH 1315 or 1319, or consent of instructor.

(WI) **4337 Fashion Merchandising. (3-0)** The study of managerial decisions in the fashion industry with an overview of promotion, distribution, and consumption of fashion apparel. Prerequisite: FCS 3330, or consent of instructor.

(WI) **4339 Economics of Apparel Industry. (3-0)** Economics of textiles and clothing production and world-wide trade market with emphasis on United States textiles and apparel industries. Prerequisite: FCS 4337 and Economics 2310 or consent of instructor.

**4341 Family Financial Counseling. (3-0)** Family financial issues are studied with an emphasis on the role of the financial counselor. Designed to increase awareness and knowledge of the characteristics of persons in serious financial difficulties, complexity of factors affecting such situations, desirable relationships between the helper and helped, and community agencies and organizations with appropriate resources. Content will include an in-depth emphasis of bankruptcy legislation. Students will work with an individual or family in a consultant role. Prerequisite: FCS 1341 and 3341.

(WI) **4347 Family Policy. (3-0)** An examination of the policy-making process and the significance of national, state, and local policies as they affect the family. Frameworks for analyzing social policy will be used to examine existing government efforts and legislation. Implications for bringing about change in policies will be discussed.

(WI) **4351 Cultural Diversity of Families. (3-0)** Study of family diversity through selected family science research methods and topics including family structure and function; family life patterns; multicultural groups; agents of enculturation and family life education. Prerequisite: FCS 3351 or consent of instructor.

(WI) **4352 Administration of Programs for Young Children. (3-0)** The history, philosophy, and ethics of programs for young children. Emphasis on responsibilities of the child care administrator in relation to staff, budgets, facility laws, and standards of agency management. Prerequisite: FCS 2353, 3357 and 3355 or approval of instructor.

(WI) **4355 Family Systems. (3-0)** Study and comparison of family systems theory and processes. Investigation of research and resources to enhance the development of family members in various environments. Prerequisites: FCS 1351, 2351, 3353, 3355, 3357 or approval of instructor.

(WI) **4367 Advanced Nutrition. (3-0)** A study of the biochemical and physiological foundations of nutrition. Information pertaining to cytology, biochemical structure of nutrients, energy transformation, nutrient-drug interactions, and the anatomy, physiology, and nutrient metabolism of major organ systems is covered. Prerequisite: Chemistry 2450; FCS 2367 and 3367.

(WI) **4368 Diet Therapy. (3-0)** Study of the physiological and biochemical abnormalities of certain disease states of gastrointestinal, endocrine, circulatory, nervous, excretory, and musculoskeletal systems with emphasis of diet modification as a therapeutic measure. Diet modifications for weight control, allergies, neoplastic disease (cancer) and physiological stress are also studied. Prerequisites: FCS 2367 and Chemistry 2450 or consent of instructor.

**4390 Vocational Home Economics Education: Principles and Process.**

**(3-0)** Analysis of teacher concerns related to professional competencies. Application of classroom management, guidance techniques, learning strategies, and evaluation procedures through laboratory micro-teaching experiences. Field experience required. Prerequisite: Curriculum and Instruction 3325, FCS 3390 and all required Family and Consumer Sciences courses.

**4681 Vocational Home Economics: Principles and Process. (0-6)** Observation and participation in the total vocational home economics program. Requires a full day in the Teaching Center for ten weeks (five day week except for holidays in public school system). Concurrent enrollment in FCS 4390. Prerequisites: FCS 3390 and completion of all required Family and Consumer Sciences courses.

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**

## Department of Military Science

### Army Reserve Officer Training Corps

*Chair and Professor-Lieutenant Colonel Adams. Instructors-Captain Workman, Captain Johnson Sergeant First Class McCormick.*

The Army ROTC Program at SWT is designed to develop the professional skills vital to Army officers. The purpose of the program is to qualify students for a commission in the U.S. Army, U.S. Army Reserve, or Army National Guard.

There are two routes available to the student who wishes to obtain a commission through the Army ROTC. Entering students may enroll in the four-year program and students with at least two academic years remaining in college may apply for the two-year program.

The four-year program has two distinct parts - the basic course and the advanced course. Entry into the four-year program requires no formal application; however, an interview is advisable because the student may be eligible for advanced placement. Registration is accomplished at the same time and in the same manner as for other college courses. During the freshman and sophomore years, students enroll in the basic course. Enrollment does not confer any military status or commitment upon the cadet. Successful completion of, or constructive credit for, the basic course is necessary before progressing to the advanced course.

The two-year program, known as the advanced course, is the last two years of the four-year program. This allows the student more flexibility in meeting qualification criteria. The basic requirement is that the student have two academic years remaining at SWT. Coordination should be made with the Professor of Military Science well in advance of anticipated enrollment in order to allow adequate time for application processing. A student may meet some prerequisites as a result of prior military training, ROTC training with any service, or successful completion of ROTC Basic Camp. An interview is advisable in order to determine if a student meets any of the above prerequisites.

Selection for the advanced course is based upon the meeting training prerequisites, and meeting medical standards. Students in the advanced course attend a paid, six-week advanced camp between their junior and senior years. The purpose of this six-week camp is to evaluate the cadets' performance in leadership positions while giving them practical field experience in a military environment.

Textbooks and materials for military science classes are furnished without cost. Members of the advanced course receive \$150 per month tax-free subsistence, up to \$1,500 per school year.

Non-scholarship advanced course cadets are eligible to participate in the Simultaneous Membership Program. This program allows a cadet to join the National Guard or Army Reserve and be paid as an E-5 for participation as an officer trainee. The Professor of Military Science should be consulted for additional information regarding this program.

Scholarships are available on a competitive basis to all cadets in Army ROTC, regardless of classification. These scholarships provide full tuition, laboratory and incidental fees, plus an allowance for books and necessary supplies. All scholarship cadets also receive the \$150 subsistence per month. Complete scholarship information may be obtained by contacting the Professor of Military Science (Army ROTC), 512-245-3232 or visit the Department of Military Science, Frio Building, or our website [www.swt.edu/acad\\_depts/army\\_rotc/index.htm](http://www.swt.edu/acad_depts/army_rotc/index.htm)

Opportunities to attend Airborne, Air Assault, and Northern Warfare Schools are available to cadets on a competitive basis.

Students who complete at least three semester hours of credit in the junior and senior levels of Army ROTC work may not be required to take Political Science 2320.

All Military Science cadets are required to attend a weekly 90 minute leadership laboratory. This gives the cadet an opportunity to practice leadership skills that are useful in civilian occupations as well as the military.

### Courses in Military Science (M S)

**1000 Leadership Laboratory. (0-1)** This course concentrates on practical leadership training. Must be taken concurrently with all other Military Science courses.

**1211 Basic Military Skills. (2-0)** An introduction to the purpose and scope of the Army Reserve Officers' Training Corps with emphasis on the role of today's Army, officership, leadership, and customs and courtesies of the Army. Basic military skills include rappelling, first aid, physical fitness and time management. Students must enroll in Military Science 1000 concurrently.

**1212 The Role of Leaders and Rifle Marksmanship. (2-0)** This course is designed to introduce the roles of non-commissioned officers and junior officers in today's Army to the basic course student. Instruction in basic rifle marksmanship is also provided using the M-16 rifle. Students must enroll in Military Science 1000 concurrently.

**2211 Dynamics of Tactical Operation. (2-0)** The objective of this course is to introduce basic tactical skills. Emphasis is on the operations order, principles of war, squad operations and the roles of the Army National Guard and Army Reserve. Students must enroll in Military Science 1000 concurrently.

**2212 Leadership Skills in an Adverse Environment. (2-0)** This course is designed to enhance leadership skills needed to operate in adverse conditions. It provides maximum exposure to map reading and skills used to survive in austere combat environments. Students must enroll in Military Science 1000 concurrently.

**(WI) 2313 American Military Studies and Battle Analysis (3-0)** This course is designed to study Military History as it applies to the principles of war and current military doctrine. Students will analyze historical battles and lessons learned and apply them to the modern battlefield.

**3311 Principles and Fundamentals of Military Operations I. (3-0)** This course includes theory and application of tactical military operations through platoon level. Heavy emphasis is placed on land navigation techniques and practical work on land navigation courses. Permission from the department chair is required for enrollment. Students must enroll in Military Science 1000 concurrently.

**3312 Principles and Fundamentals of Military Operations II. (3-0)** Continuation of MS 3311. Special emphasis on platoon leader tactical skills, radio communications, leadership and physical fitness. Permission from the department chair is required for enrollment. Students must enroll in Military Science 1000 concurrently.

(WI) **4311 Essentials of the Military Professions I. (3-0)** A comprehensive review of the Army training system and the Soviet Army. Permission from the department chair is required for enrollment. Students must enroll in MS 1000 concurrently.

(WI) **4312 Essentials of the Military Professions II. (3-0)** This course provides a review of military law, the Army personnel and logistics systems, and ethics. It also includes seminars on the transition to the officer corps as an active duty or reserve officer. Permission from the department chair is required for enrollment. Students must enroll in Military Science 1000 concurrently.

(WI) **4313 Independent Study in Military Science. (3-0)** This course will be designed to meet the needs of the individual student. It will be a directed and closely monitored program targeted at the students' weaknesses/interests. The course will primarily deal with topics pertinent to the military profession; such areas as leadership, management, ethics, law and their application. Course will require week/bi-weekly progress review with instructor.

## Department of Technology

*Chair and Professor-Habingreither. Professors-Martin, Pierson, Winek. Associate Professors-Batey, Sriraman, Windham. Assistant Professors-Anandu, Borchers, DeLeon, Springer. Lecturers - Hanzel, Harkins, Rowe, Sullivan, Weathersby, Wilson.*

The Department of Technology offers the Bachelor of Science in Technology (BST) and the Bachelor of Applied Arts and Sciences (BAAS) degrees. The two majors in the BST degree are industrial technology and engineering technology. Each major prepares the student for employment in industry, either in the public or private sector. An industrial technology teacher certification option is also available.

Technology graduates generally work in management or in technical/engineering fields. Professional positions in manufacturing, construction, photography, printing, education, and computers are typical.

Technology Specialization by Transfer-Up to 24 semester hours of approved courses in a junior/community college industrial/engineering technology program may be applied toward the major requirement in industrial technology or engineering technology. These transfer hours must be approved by a departmental advisor and the Chair of the Department prior to admission to the program.

The BAAS degree offered by the Technology division is an inverted degree plan and is particularly appropriate for those holding a 2-year technical associates degree. This degree is referenced on page 123.

The BAAS degree offered by the Occupational Education division is appropriate for nontraditional students returning to college who: 1) have an associates degree and desire to complete the four year credential, 2) have extensive work experience, but have few or no college hours, 3) have both college hours and creditable work experience. Students may also work toward vocational certification which may be utilized in the BAAS degree. The certification is referenced on page 130 and the BAAS through Occupational Education is referenced on page 133.

For more information call 512/245-2137 or visit the Technology Department, Technology Building 1, Room 101, or our website [www.swt.edu/acad\\_depts/tech\\_dept/index.html](http://www.swt.edu/acad_depts/tech_dept/index.html)

<b>Freshman Year</b>	<b>Hours</b>
English 1310, 1320.....	6
Philosophy 1305 .....	3
History 1310, 1320 .....	6
Math 1315 .....	3
Technology 1320, 1330, 1413 .....	10
Chemistry 1410.....	4
<b>General Studies 1100</b>	<b>1</b>
Phy. Fitness Perspective .....	1



<b>Sophomore Year</b>	<b>Hours</b>
Communications 1310.....	3
English Literature .....	3
Political Science 2310, 2320 .....	6
Technology 3322 .....	3
Physics 1410.....	4
Computer Science 1308 or Technology 1310.....	3
Tech. 1450, 2310, 2330 .....	10
Phy. Fitness Perspective .....	1

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<b>Junior Year</b>	<b>Hours</b>
English 2351 .....	3
Curriculum & Instruction 3325, 4332 .....	6
Reading 3323.....	3
Technology 2344, 2360, 2370, 3310, 3313, 4374.....	18

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<b>Senior Year</b>	<b>Hours</b>
Art, Dance, Music or Theatre 3313.....	3
Economics 2320 .....	3
Curriculum & Instruction 4341, 4343 .....	6
Education 4681 .....	6
Management 3303 .....	3
Technology 4360, 4380, 4362 (3 hrs. TECH adv.) .....	12
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**Bachelor of Science in Technology**  
**Major in Industrial Technology**  
**(Minimum required: 128-139 semester hours)**

<b>Freshman Year</b>	<b>Hours</b>
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Industrial Technology Core .....	6-9
Mathematics 1315.....	3
Philosophy 1305 .....	3
Speech Communication 1310 .....	3
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	28-31

<b>Sophomore Year</b>	<b>Hours</b>
Chemistry 1410.....	4
Literary Perspective .....	3
Industrial Technology Core and/ or Major.....	15
Physics 1410.....	4
Political Science 2310, 2320 .....	6

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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Economics 2320 .....	3
Industrial Technology Core .....	24-25
Technology 3322 .....	3
Phy. Fitness Perspective (one course).....	1

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<b>Senior Year</b>	<b>Hours</b>
Capstone Course, Technology 4390 .....	3
Industrial Technology Core .....	3
Industrial Technology Program	
Major .....	27-34
Phy. Fitness Perspective (one course).....	1

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### **Industrial Technology Core**

All industrial technology students must take the following courses to fulfill the industrial technology core requirements:

Technology 1310, 1332, 2344, 2370, 3310, 3364, 4345, 4380, 4390 (repeat for total of six semester hours credit); Management 3303; English 3303.

### **Industrial Technology Program Majors**

All industrial technology students must select one of the following four program majors-39-47 minimum hours:

**Industrial Technology-Construction**-Technology 1320, 1330, 2360, 3313, 4313, 4357, 4360, 4361, Geography 3310 or 3320 or 3323; Finance 3301 or Management 3340 or 4373; Accounting 2361; Agriculture 3455; Physics 1420; Chemistry 1420; Math 1317 or 2417.

**General Technology**-Courses in the general specialization are selected with the assistance and approval of a departmental advisor. Teacher certification is available in conjunction with this concentration. See School of Education page 166 for more information. Industrial bound students may also choose this flexible option as a concentration.

**Industrial Technology-Manufacturing**-Technology 1330, 2310, 2330, 4330, 4357, 4362, 4373, 4374, 4391; Geography 3303; Management 4330; Physics 1420; Chemistry 1420; Math 1317 or 2417.

**Industrial Technology-Visual Communications**-Technology 1450, 2310, 2350, 2365, 3350, 3365, 4310, 4357; Geography 3303; Management 4330; Physics 1420; Chemistry 1420; Math 1317 or 2417.

<b>Freshman Year</b>	<b>Hours</b>
Chemistry 1410, 1420.....	8
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics 2471, 2472.....	8
Philosophy 1305 .....	3
Technology 1332 .....	3

<b>Sophomore Year</b>	<b>Hours</b>
Mathematics 3305 and 3323 .....	6
Phy. Fitness Perspective (two courses) .....	2
Physics 1430, 2425 .....	8
Political Science 2310, 2320 .....	6
Technology 2344 and 6 hours from Engineering Technology	
Specialization .....	9
Speech Communication 1310 .....	3
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	34

<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Economics 2320 .....	3
English 3303 .....	3
Literary Perspective .....	3
Technology 3322 .....	3
Mathematics 3348 .....	3
Physics 2435 and 3315 or 3317 .....	7
Technology 3364, 4345, 4374 .....	9
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	34

Senior Year	Hours
Capstone Course, Technology 4390 .....	3
Economics 3313 or 3335 .....	3
Engineering Technology	
Specialization .....	18
Management 3303 .....	3
Mathematics 3375 .....	3
Technology 4390 .....	3

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## Engineering Technology Specializations

All engineering technology majors must enroll in a minimum of 24 semester hours in one of the following four specializations:

**Communications Systems**-Required 15 hours: Technology 2310, 4372, 4373, 4375, and 4399, plus 9 hours selected from the following: Technology 3370, 4380; Computer Science 2308, 2488, 3428; Computer Information Systems 2324, 2371, 3370.

**Community Systems**-Required 15 hours: Technology 2360, 3313, 4313, 4360, 4361; plus 9 hours selected from the following: Technology 4380, 4399; Accounting 2361; Finance 3301; Management 4336; Geography 3310, 3320, 3321, 4336, 4338, 4350; Psychology 3331; Agriculture 3354; Health Administration 4328; Recreation 2335.

**Environmental Systems**-Required 18 hours: Technology 2310, 4362, 4380; Geography 4313, 4338, 4350; plus 6 hours selected from the following: Technology 4330; Geography 3320, 3321; Chemistry 4331.

**Plant Production Systems**-Required 18 hours : Technology 2310, 2330, 4330, 4362, 4391; Management 4330; plus 6 hours from the following: Technology 4310, 4357, 4380; Management 4373, 4377; Sociology 3370.

## Bachelor of Applied Arts and Sciences Major in Applied Arts & Sciences (Minimum required: 128 semester hours)

The Department of Technology offers a Bachelor of Applied Arts and Sciences (BAAS) degree. This inverted degree program (two plus two) is specifically designed for qualified transfer students who wish to pursue a field of interest in a technological, occupational, or vocational area. This program is especially well suited to those who hold a technical degree from a 2-year institution. More specific information about this degree program may be obtained by contacting the Department Chair.

### Minor in Technology

Eighteen hours are required for a minor in Technology. At least nine hours must be advanced. Courses will be determined by conference with an advisor or the Chair of the Department.

### Minor in Photography

The minor in photography features the study of photographic periods and styles equipment use and techniques; photographic presentations; and professional careers in photography. The minor consists of 19 hours: TECH 1450 plus five (5) additional courses selected from the following: TECH 2350, 2366, 3350, 3355, 4350, 4355, and 4366.

### Driver and Traffic Safety Education

**Certification:** A student may receive State of Texas Certification in Driver's Education by completing nine semester hours, which include the following courses: Technology 4380, 4383, 4385 (or 4393). Supervising Teacher Certificate must also complete above requirements, plus Technology 5692. For more information on this program contact the Director, Traffic Safety Center.

### Courses in Technology (TECH)

**1310 Computer Applications in Technology. (2-2)** This is an introductory course in Computer Applications as related to technology. The concepts of hardware, software, networking, telecommunications, DOS, Windows, Macintosh, and UNIX will be covered. Students will gain hands-on experience in using software programs in CAD, CNC, and Robotics Programming, statistical quality control, and computerized estimating. Unique input and output devices related to technical applications will be demonstrated.

**1320 Furniture Design and Construction. (2-3)** Fundamentals of furniture design, styles, human factors, specification writing, shop drawing, and construction techniques are studied. Furniture materials, hardware, finishes, and furniture manufacturing machinery are used. Actual pieces of furniture are designed and built by the student. Prerequisite: TECH 1413 or consent of the instructor.

**1330 Assembly Processes. (2-2)** Basic assembly process to include gas, arc, resistance, thermite, induction, and forge welding; weld-ability, weld metallurgy, weld symbology, and weld testing; brazing; soldering; mechanical fastening to include threaded fasteners, rivets, shrink and press fits, seams, staples, crimping, and structural adhesives. Principles of joint design and cost estimation. An overview of electronics assembly processes and automated assembly.

**1332 Materials and Processes of Industry. (3-0)** The variety of materials, processes, and equipment used by industry to change raw materials into industrial materials or finished products including metallics, plastics, earths, and others, processes and equipment used to separate, combine, or form the materials studied.

**1413 Engineering Design Graphics. (3-3)** An introductory communications course in the tools and techniques utilized to produce various types of working drawings. Principles of multiview projections, geometric relationships, shape and size description, and pictorial methods are included with emphasis on technical applications and design problem solving.

**1450 Basic Photography. (3-3)** Black and white photography stressing the basic fundamentals of the photographic process; use of modern cameras and accessories; procedures in making pictures from exposed sensitive materials to completed prints; competencies in darkroom procedures.

**2310 Machine Drafting. (3-3)** Introduction to the use of computer-aided drafting techniques (CAD) and application of basic principles of engineering drawing to the preparation of drawings for manufacturing processes. Emphasis includes principles of descriptive geometry, multiview projection, precision dimensioning, machine tooling, dies, production drawing, machine design and fabrication methods. Prerequisite: Technology 1413 or consent of instructor.

**2330 Fundamentals of Material Removal. (3-0)** An overview of the micro and macro structure of materials is studied. Assessment of materials with regard to their chemical and mechanical properties and how these properties relate to machining is explored. Machining conditions with regard to feed, speed, surface finish, tooling requirements, horsepower capabilities, time, and cost analysis complete the class. Prerequisite: Math 1315.

**2344 Power Technology. (2-2)** This class deals with understanding the basic laws of thermodynamics. It probes the issues of efficiency and examines energy-converting devices from the inputs, processes, outputs model. Internal combustion engines, electric motors, hydraulic systems, pneumatic systems, wind electric systems, solar energy systems, and gearing systems are reviewed from a practical and a theoretical perspective. Fuel analysis, lubricants, and friction all comprise essential topic areas. Prerequisite: Math 1315.

**2350 Exploring Advanced Black and White Darkroom Techniques. (2-4)** Experimenting with various darkroom techniques, such as high contrast printing, combination printing, multiple printing, base-relief, solarization, posterization, reticulation, combining black and white with color, in order to enhance their black and white printing competencies. Prerequisite: Technology 1450 or Journalism 1450.

**2360 Building Construction Systems. (2-3)** This is an introductory course in building construction systems. Site work, foundations, walls, roofing, ceiling, floor, and finishing systems are studied along with construction materials and an introduction to HVAC, plumbing, and electrical systems.

**2365 Introduction to Printing Technology. (3-3)** Introduction to major printing processes, materials, equipment, and the preparation of image designs for production using computer graphics.

**2366 Electronic Image Manipulation (2-2)** This introductory course will utilize basic graphics and photographic manipulation programs to introduce important concepts in computers and computer-based imagemaking. The student will explore the use of computer hardware and image enhancement software.

**2370 (ENGR 2305) Electricity/Electronics Fundamentals. (2-2)** Fundamentals of safety, Ohm's Law, series, parallel, and series-parallel circuits, meters, relays, and basic transistor circuits.

(WI) **3310 Industrial Design. (3-0)** The fundamentals, elements, and principles of design applied in creative ways to industrial design problems emphasizing function, form, and aesthetics. Ergonomics, product life cycles, environmental concerns, and use of elementary statics for stress analysis.

**3311 Mechanics of Materials (3-1)** This course covers the principles of mechanic materials and includes the following topics: stress and strain; elastic modulus and Poisson's ratio; constitutive equations; torsion; bending; axial, shear and bending moment diagrams; deflection of beams; and stability of columns. Prerequisite: MATH 1317.

**3313 Architectural Drafting. (3-3)** Architectural drafting techniques and principles of home planning. Exterior and interior design of the home, essentials of heating, lighting, ventilating, sanitation, and legal aspects of homebuilding; structural systems in wood, concrete, and metal. Complete plans for a one-story residence will be drawn by each student. Prerequisite: Technology 1413 or 2310.

(WI) **3322 Development of Technology. (3-0)** The role of technology in the development of Western World culture is studied from a technical perspective. Social repercussions resulting from the introduction of foundational technical developments are reviewed. Examples of technical areas examined are agriculture, transportation, manufacturing, engineering, defense, and communications. Readings focus discussions and papers on specific topics and encourage synthesis level understanding.

**3350 Presentation Photography. (3-3)** Analysis and application of photography as a means of visual communication; use of professional equipment: 35 mm photographic system, video camera, including still, computers, slide/sync tape player. Students plan, produce, and evaluate 2 x 2 color slide presentations and computer presentations. for visual communication applications.

**3364 Industrial Inspection and Quality Control. (3-0)** A study of the functions and activities that are performed to fulfill established quality objectives including measurement standards, use of proper materials, selection of manufacturing processes, selection of tooling to make a product, performance of manufacturing operations, and inspection according to established specifications. Quality assurance data analysis techniques will also comprise a portion of this course.

**3355 Criminal Investigative Photography (2-2)** Exploratory experiences in the accepted photographic techniques used by law enforcement agencies to both document and investigate criminal activity and accidents.

**3365 Graphic Communications Technology. (3-3)** Photo-offset fundamentals, layout stripping, plate-making, and multi-color work. Multi-color screen printing and computer graphics. Prerequisite: Technology 2365 or consent of instructor.

**3370 Audio Frequency Communications. (2-2)** A study of the characteristics of basic electronic circuits and their component parts. Course content includes the use of electronic test equipment, inductance, capacitance, reactance, impedance, rectification, switching, amplification, and electronic circuit fabrication. Prerequisite: Technology 2370.

(WI) **\*3388 Applications of Industrial Technology. (3-0)** Contemporary philosophies and practices of industrial technology with the emphasis on applications in Texas. Areas studied will be focused primarily on past and present technology. Development of artifacts will be included as part of the course.



**4197 Special Topics.** (Arrangement) The investigation of a special topic by developing the problem, researching the topic, and presenting the findings as they apply to industry/technology. This course will be applicable to all areas of technology, and must be done only with the approval of the cooperating faculty member and Department Chair.

**4197I, Problems in Technology (Vocational-Industrial Education). (1-0)**

**4197M, Problems in Technology (Marketing Education). (1-0)**

**4197O, Problems in Technology (Office Education). (1-0)**

**4197T, Problems in Technology (Technology). (1-0)**

**4297 Special Topics.** (Arrangement) The investigation of a special topic by developing the problem, researching the topic, and presenting the findings as they apply to industry/technology. This course will be applicable to all areas of technology, and must be done only with the approval of the cooperating faculty member and Department Chair.

**4297I, Problems in Technology (Vocational-Industrial Education). (2-0)**

**4297M, Problems in Technology (Marketing Education). (2-0)**

**4297O, Problems in Technology (Office Education). (2-0)**

**4297T, Problems in Technology (Technology). (2-0)**

**4310 Technical Drafting. (3-3)** The application of computer-aided drafting (CAD) using industrial standard software on micro-computers. Technical areas of drafting will be selected from machine tools, industrial products, architectural, cartography, technical illustration, aerospace, topographic, drafting for computer numerical control, structural steel, electrical/electronic, piping, jigs and fixtures, gears and cams, intersection and development, welding, robotic simulations, and other engineering applications. Prerequisites: Technology 1413, 2310 or consent of instructor. Repeatable for credit.

**4313 Advanced Architectural Drafting. (3-3)** Architectural drafting and light commercial construction; community, urban and regional planning; exterior and interior design of selected light commercial buildings; essentials of heating, lighting, ventilation, sanitation, and legal aspects of commercial buildings; structural systems in wood, concrete, and metal. Complete plans for a light commercial and/or a two story residence will be made by each student. Prerequisite: Technology 3313.

**4321 Flight Instruction Academics. (3-0)** Provides instruction necessary to pass the Federal Aviation Administration written examination in order to fulfill academic requirements for a private pilot's license. Includes instruction in: Aircraft Pre-Flight; Flight and System Controls; Federal Aviation Agency Regulations; Navigation; Weather; Weight and Balance; Radio Communications; and Airman Information Manual.

**4325 Fundamentals of Computer Visualization and Animation. (2-3)** An introduction to computer visualization and animation. Visualization will include geometric construction, surface material, surface mapping, surface texture, lighting and camera field of vision. Animation will include industrial animation techniques such as imploding, morphing, mechanical cycle, and camera paths. The animations will be downloaded to an electronic format.

(WI) **4330 Foundry and Heat Treatment. (3-3)** The technical aspects of foundry and heat treatment of ferrous and non-ferrous metals are reviewed. Students gain proficiency with interpretation of binary phase diagrams, mathematical modeling of gate and runner systems, micro-structural analysis, process cost evaluation, sand testing, investment casting and other technical processes. Technical report writing is an important part of this class. Data collection and data analysis with experiments allow students to develop appropriate techniques for presenting technical data in report format. Technology 1332 recommended.

**4345 Methods Engineering and Ergonomics. (3-0)** Principles and procedures of methods engineering to include concurrent engineering, charting techniques, motion analysis, principles of motion economy, human factors, direct time study, standard data systems, predetermination time standards and work sampling.

**4350 Color Printing. (2-4)** The making of color photographic prints. Students will use modern photographic equipment, such as color head enlarger, color analyzers, film processors, and automatic print processors. Prerequisite: Any two of Technology 1450, 2350, or 3350.

**4355 Studio Photography. (2-3)** Studio photography emphasizes professional photographic techniques through the operation of specialized equipment currently utilized in the field. It includes experiences in posing, exposure and composition used in large format technology. Course may be repeated one time for credit.

**4357 Plant Layout. (3-0)** Survey and application of the principles and methods used for solving plant layout and material handling problems in industry.

**4360 Building Construction Site Organization. (2-3)** The course covers the aspects of construction necessary to obtaining a contract and organizing the construction site in order to build a structure. Contracts, insurance, bonding, AIA documents, specifications, plans, and financing are studied. Selected structures are built.

**4361 Construction Estimating and Scheduling. (2-3)** The professional aspects of construction including estimating, labor, materials, time, detailed take-off methods, and scheduling including Gantt and PERT/CPM techniques. Profit and overhead are covered along with range estimating and depreciation methods. Contemporary computer programs are used.

**4362 Manufacturing Processes I. (1-3)** This course deals with the application of metal cutting principles learned in 2330. Included in the requirements are steel rule dye layout, machine layout, tool life, tool wear, tool geometry and reconditioning, feed and speed principles, metal removal rates, and power consumption calculations. Machining steel as well as castings produced in the laboratory with various types of cutting tool materials and varying geometry contribute toward the wide variety of experiences included in this basic manufacturing course. Plain indexing activities complement basic machine operations in a unique and most unusual way. Prerequisite: Technology 2330.

**4366 Electronic Publishing. (2-2)** Students will create black and white, grayscale, color digital files of artwork and photographs using various electronic imaging equipment. These imaging files will be imported into various image manipulation programs to produce digital halftones and color separations. The resulting images will be graphically reproduced on a variety of print production.

**4371 Radio Frequency Communication. (2-2)** RF generator, Hartley, Colpitts, and crystal oscillators, superheterodyne radio circuitry, Principles of Communications, filters, modulation and demodulation, transmitting antennas, and AFC Principles. Prerequisite: Technology 2370.

**4372 Electronic Instrumentation. (2-2)** Transistor configurations, field effect transistors and circuits, voltage regulation, amplifier feedback principles, operational amplifiers and circuitry, and unijunction transistors and applications. Prerequisite: Technology 2370.

**4373 Industrial Electronics. (2-2)** A study of control systems, electrical switching, electrical generation, motors, wiring, illumination, and temperature controls as they apply to industry. Electronic product development and manufacturing are studied through classroom and laboratory activities. Prerequisite: Technology 2370.

**4374 Digital Electronics (2-2)** Solid state digital electronics from basic concepts to current industrial needs in terms of logic gates (all types), number systems counters (all types), registers (all types), sequential control circuits, and shift register generator. Prerequisite: Technology 2370 or Physics 2425.

**4375 Computer Circuit Electronics. (2-2)** Computer circuits as they are related to digital electronics, digital computer circuits, microprocessor, and memory concepts. Prerequisites: Technology 2370 and 4374.

(WI) **4380 Industrial Safety. (3-0)** Introduction to the field of industrial safety with emphasis on compliance with Federal and State regulations.

**4383 Driver and Traffic Safety Education I. (3-0)** Content, methods, and materials for instruction in the classroom phase of driver education in Texas. Topics include Texas traffic law; Texas Education Agency standards for high school driver education; driver behavior, attitude, and psychomotor skills; and safety in the highway transportation system.

**4385 Driver and Traffic Safety Education II. (3-3)** Content, methods and materials for instruction in the laboratory phase of driver education in Texas. Topics include in-car instruction, multi-car range, and simulation. During laboratory sessions participants will observe in-car instructors, peer teach in the car, and teach a high school student how to drive.. Prerequisite: Technology 4383 and a good driving record. TECH 4383 and 4385 will be taken simultaneously.

**4387 Motorcycle Safety and Rider Education. (3-3)** Techniques and methods of teaching beginner rider education. Includes classroom techniques as well as laboratory experience in on-street and off-street riding. Not applicable to the Bachelor of Science in Technology degree program.

(WI) **\*4388 Organization and Management of Industrial Technology. (3-0)** The organization of industrial technology activities studied will include learning environments, professional activities, budgets, physical facilities, supplies, maintenance, and equipment. The student will experience situations using a variety of activities. The activities will require the student to become involved in research and development procedures as well as market research.

(WI) **4390 Internship. (0-3)** Supervised on-the-job experience in a business/industrial/technical area. This course may be repeated for credit with approval of the Department Chair and/or advisor. See Department Chair or advisor for prerequisites.

**4391 Manufacturing Processes II. (1-3)** This course deals primarily with a wide variety of advanced manufacturing techniques. Included in its structure are the following areas: differential indexing, electrical discharge machining, precision grinding, specialized thread cutting, high energy rate forming, tool grinding, tool behavior analysis, tool cost evaluation, and numerical control programming. An emphasis may be placed on certain processes mentioned above in order to meet the specific needs of various classes. Prerequisites: Technology 2330, 4362, Math 1315.

**4392 Microelectronics Manufacturing (3-0)** This course will provide an overview of integrated circuit fabrication to include: crystal growth, wafer preparation, epitaxial growth, oxidation, diffusion, ion-implantation, thin film deposition, lithography, etching, device and circuit formation, packaging and testing. The laboratory component will involve actual production and testing of a functional semiconductor device.

**4393 Driver and Traffic Safety Education III. (3-3)** Content, procedures, and administration of multi-phase driver education programs. Topics include scheduling, maintenance and operation of laboratory equipment, record keeping, lesson plan development, and driver education for the handicapped. Practicum in classroom and/or simulation instruction.. Not applicable to the Bachelor of Science in Technology degree program. Prerequisites: Technology 4383, 4385.

**4397 Special Topics. (Arrangement)** The investigation of a special topic by developing the problem, researching the topic, and presenting the findings as they apply to industry/technology. This course will be applicable to all areas of technology, and must be done only with the approval of the cooperating faculty member and Department Chair.

**4397I, Problems in Technology (Vocational-Industrial Education). (3-0)**

**4397M, Problems in Technology (Marketing Education). (3-0)**

**4397O, Problems in Technology (Office Education). (3-0)**

**4397T, Problems in Technology (Technology). (3-0)**

**4399 Seminar in Technology. (3-0)** The topics for this course will vary. The course will involve the identification of the topic, its nomenclature, its processes, tools, equipment or materials, and its application to technology. The topic may apply to either the certification program or technology program or to both. A final report summary or presentation will conclude each seminar.

**For course descriptions and further information about available graduate offerings, consult the Graduate Catalog.**

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\*A grade of "C" is required.

## Career and Technology Education (CATE)

The Department of Technology offers vocational teacher certification programs in the areas of trade and industrial education, health occupations education, marketing education, office education, career investigation\*, vocational counseling and guidance\*, job placement coordinators\*, and vocational administrators\*. Students who choose one of these CATE certification sequences are prepared for employment in the public schools of Texas provided they satisfactorily complete all required courses and other Texas Education Agency criteria including two to five years of approved work experience and teaching on an emergency permit.

Students who pursue the Bachelor of Applied Arts and Sciences (BAAS) degree may use CATE teacher certification courses to satisfy the professional development and occupational emphasis sequences for that degree. The same restrictions and/or regulations concerning certification by the Texas Education Agency apply.

The Special Topics course CATE 3313 includes: A. Teaching CATE Students with Special Needs; B. Using Microcomputers in CATE; C. Teaching Entrepreneurship in CATE; D. Leadership Activities for CATE Teachers; and is designed to satisfy career advancement requirements as well as apply toward the BAAS.

### Trade and Industrial Education

Trade and industrial education for secondary students includes any subject or program designed to develop manipulative skills, technical knowledge, and related information necessary for employment in any craft or skilled-trade occupation which directly functions in designing, producing, processing, fabricating, assembling, testing, maintaining, servicing, or repairing any product or commodity. Training is also available in service and certain semiprofessional occupations.

**Certification:** Certification courses include the following: CATE 3301/5301, CATE 3302/5312, CATE 3303/5303, CATE 3304/5314, CATE 3305/5305, CATE 3306/5306, CATE 3307/5307, and CATE 3308/5308.

### Health Science Technology Education

Health Science Technology programs are designed with the intent that each completing student will have achieved two major goals: (1) attainment of sufficient information, observation, and practical knowledge in the range of health occupations to make an informed choice about further commitment toward a health-related career; and (2) attainment of knowledge and skills necessary for entry-level employment in at least one of the many occupations related to the care of patients, prevention of illness, and maintenance of health. Entry-level employment comprises functions that are assistant or supportive to those of duly licensed or certified health practitioners.

**Certification:** Certification courses include the following: CATE 3301/5301, CATE 3302/5312, CATE 3303/5303, CATE 3304/5314, CATE 3307/5307, and CATE 3308/5308.

### Business/Office Education

Business/Office Education certification qualifies individuals to teach Business/Office Education programs in the junior or senior high schools and in adult centers. Business/Office Education programs are designed to prepare students for entry-level positions in business related occupations. Business/Office Education programs include lab and cooperative education.

**Certification:** Certification courses include the following: CATE 3380/5380, CATE 3381/5381, and CATE 3313B. Plus, for students seeking the BAAS degree, six hours of advanced electives as specified by the CATE Office Teacher Educator are required.

### Marketing Education

Vocational Marketing Education is designed to prepare, maintain, and advance people in marketing occupations. The program of instruction is provided through high schools and adult education centers and involves a combination of the following: (1) classroom instruction in marketing or in any specialized marketing area; (2) practical and/or simulated job-oriented experiences; and (3) supervised on-the-job training.

**Certification:** Certification courses include the following: Marketing 3343, 3355; CATE 3301/5301, CATE 3303/5303, CATE 4302/5302, and CATE 4304/5304. The Texas Education Agency requires: two years of approvable and successful wage-earning experience in the marketing occupations.

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\*These certification options are listed in the Graduate Catalog.

## Courses in Career and Technology Education (CATE)

\*3301 Methods of Teaching Career and Technology Education Subjects.

(3-0) **Introduction to fundamentals of teaching as applied to CATE subjects.**

\*3302 **Development, Organization and Use of Instructional Material. (3-0)** Study made of published material available in student's occupational field. Subjects found suitable for CATE classes will be indexed and organized for class use. Instruction sheets necessary for efficient teaching will be written.

\*3303 **Aims and Objectives of Career and Technology Education. (3-0)** Basic principles involved in development and operation of CAT programs under state and federal laws.

**\*3304 Human Relations for Career and Technology Education Teachers.**

**(3-0)** Combination of psychological and sociological factors which influence relationships of CATE teachers in their pursuit of professional duties.

**\*3305 Shop and Classroom Organization and Management. (3-0)** Organization of procedures to facilitate teaching: setting up roll-checking devices, issuing procedures for tools and materials, keeping material inventory, using assignment and progress charts, using student leadership in non-teaching class and laboratory routine, and keeping records.

**\*3306 Analysis and Course Making. (3-0)** Analysis made of occupations to obtain content for instructional information, jobs and operations studied to determine order and content of operation, job evaluation, and job safety. Each student will make a course of study for some particular occupational subject.

**\*\*3307 Selection, Placement, and Follow-up in Career and Technology Education. (3-0)** Selecting occupations suitable for young people to learn, placing students in suitable employment on part-time basis, coordinating their school duties with their work activities.

**\*\*3308 Problems in Cooperative Training. (3-0)** Organization and presentation of content material necessary in part-time cooperative programs, and direction of study of students engaged in such programs.

**\*\*\*3313 Special Topics in Career and Technology Education.(3-0)** Selected topics in CATE taught through study and research. Course can be offered as individual instruction or as an organized class. No prerequisites are required. May be repeated 3 times with different emphases for additional credit.

**\*\*3380 Management of Business Office Education Programs. (3-0)** Development procedures and policies for managing an office education classroom including cooperative training, student organization, public relations, and program evaluation.

**\*\*3381 Instructional Strategies in Business Office Education Programs. (3-0)** For laboratory and teacher-coordinators of CATE programs. Development of strategies based on an assessment of individual student's needs and office career objectives.

**\*\*3382 Organizing and Implementing Cooperative Career and Technology Education Programs. (3-0)** Identification of the CATE student, placement of students in CATE occupations, evaluating prospective business offices to determine the effectiveness of machines and procedures in training CATE students, and analyzing supply and demand data for CATE occupations which insure job entry employment.

**4302 Coordination Techniques. (3-0)** The cooperative program in Marketing and Distributive Education; program establishment; guidance; selection; placement of students; work adjustment; student objectives; evaluation; labor laws; public relations.

**4304 Organization and Management of Marketing Education Programs. (3-0)** Organization and administrative structure in the United States; objectives; programs; practices; teacher selection and supervision; evaluative criteria for business; and distributive education requirements.

**4310 Independent Study in Career and Technology Education (3-0)** Senior level study of various subjects important to the CATE educator. Work done on an independent study basis with permission of major advisor.

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\*Required for pre-employment laboratory teachers.

\*\*Required for all part-time cooperative coordinators.

\*\*\*For career advancement and application toward Bachelor of Applied Arts and Sciences degree.

## **Occupational Education**

Occupational Education division of the Department of Technology offers the Bachelor of Applied Arts and Sciences (BAAS) degree. The BAAS is a nontraditional program designed to allow adult students to earn a degree with a major in an interdisciplinary area. In addition, it allows adults to assist in the choice of courses which would complement their career goals. The following are unique characteristics of the BAAS:

1. Delivery of academic courses may be at nontraditional times and at locations other than the parent campus.
2. Academic course work is individualized to meet student needs, but course work cannot duplicate an existing traditional academic program.
3. Worklife credit may be awarded for competencies gained through employment prior to entering the program.
4. The major for the BAAS is "Applied Arts and Sciences" and for purposes of calculation of the major grade point average, the first 18 hours taken in the Professional Development will be utilized.
5. Numerous methods for obtainment of academic credit may be employed toward the BAAS degree, including correspondence and extension courses, and credit by examination. Credit by examination is limited to not more than 30 hours and tests may not be taken in the last 30 hours of study.
6. Students choosing the BAAS program through the Occupational Education division must complete 30 hours residence credit with Southwest Texas in order to be awarded the degree.
7. Students who have earned at least 60 semester hours at SWT are eligible to graduate with honors if they have a minimum SWT GPA of 3.40.
8. Due to individualization and the unique nature of the program requirements, students should consult the division office to attend a special orientation and draft planning session prior to choosing the major.

### **Bachelor of Applied Arts and Sciences Major in Applied Arts and Sciences (Minimum required: 128 semester hours)**

**The BAAS degree plan includes the following four modules:**

#### **Occupational Emphasis Module (48 semester hours)**

This module may be satisfied by credits earned from experiential learning (work/life experience, noncollegiate sponsored instruction, credit by examination), transfer work from other accredited institutions of higher learning, or a comprehensive cooperative education program. Occupational Education 4350 (Occupational Assessment) is the required entry course for this module.

#### **General Studies Module (55-57 semester hours)**

This module may be satisfied through a number of options including traditional course work from Southwest Texas and transfer credit from accredited institutions of higher learning plus limited numbers of hours from nontraditional methods including correspondence, extension, and testing. See the General Studies section of the catalog on page 48 for requirements. Occupational Education 4340 (2 sections), 6 semester hours, will satisfy the requirements as a capstone course.

### **Electives Module (5-7 semester hours)**

Five to seven semester hours of complementary electives are chosen with the advice of the student's degree advisor.

### **Professional Development Module (18 semester hours)**

Professional development sequences are interdisciplinary and individualized to students' needs. All professional development sequences must have courses from at least three academic departments. This module of 18 hours constitutes the major for GPA calculation purposes.

### **Courses in Occupational Education (OCED)**

Students desiring to enter the Occupational Education program must take OCED 4350 as their initial entry course. All students must have a 2.25 GPA to register for the course.

(WI) **\*4340 Cooperative Occupational Education. (3-0)** Supervised on-the-job experience in an occupational area. It satisfies the occupational competency requirement for certification in vocational industrial education.

(WI) **4350 Occupational Assessment. (3-0)** Theory and techniques related to the identification, documentation, and assessment of various forms of prior extra-institutional learning. Prerequisites: English 1310, 1320, Speech Communication 1310 or 3327, and English 2310 or Literary Perspective alternative, or approval of Director.

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\*Course may be repeated.





# SCHOOL OF BUSINESS

**Paul R. Gowens, Ph.D., Dean**

**James D. Bell, Ph.D.,  
Associate Dean for Undergraduate Programs**

**Robert J. Olney, Ph.D.,  
Associate Dean for Graduate Programs**

## **Department Chairs**

Accounting..... Daniel J. Flaherty, Ph.D.  
Computer Information Systems  
and Quantitative Methods ..... Mayur R. Mehta, Ph.D.  
Finance and Economics ..... Donald E. Sanders, J.D., Acting  
Management and Marketing ..... Michael J. Keeffe, Ph.D.

## SCHOOL OF BUSINESS

The mission of SWT's School of Business is to provide broad-based undergraduate- and masters-level educational programs that produce graduates with the skills, knowledge, and values to help them excel in a diverse, globally-competitive environment.

The School's mission reflects the responsibility of a regional School of Business to provide educational opportunity for the people it serves by making the education of its students the focus of all activities and by creating and continuously improving programs that add value through relevance, convenience, and overall quality. To students the School offers an accessible, reasonably-priced, professional education that enables them to transform their lives. To faculty and staff the School supports a culture and provides resources to educate a diverse, multicultural student population and to pursue relevant professional development. To the region the School offers a pool of talented faculty and student resources.

The four major goals of the School are to:

- Enhance our quality and prestige,
- Increase the retention and success of students,
- Promote ethnic, gender, and cultural diversity in the SWT community, and
- Increase SWT's leadership and presence in the surrounding metropolitan area, with special emphasis in North Austin and Williamson County.

To achieve its mission, the School focuses on creating a learning environment that places primary importance on teaching excellence supported by an appropriate blend of research and service. Scholarly endeavors are generally directed at applying knowledge in the functional areas of business to solve relevant problems and, to a lesser extent, to instructional development and basic research. The cornerstone of the School is an enthusiastic, student-oriented faculty who are knowledgeable in their particular disciplines. Many faculty have augmented their academic expertise with business and/or consulting experience.

The educational environment prepares students for careers in both the private and public sectors by emphasizing comprehensive learning that combines general education and professional studies in business. The School's core requirements cover the main functional areas of business. Specialized study in one of six traditional business majors (accounting, computer information systems, economics, finance, management, or marketing) provides knowledge upon which to base a career. The curriculum also addresses the economic, legal, political, social, technological, and demographically diverse environments in which modern business is conducted.

The following values are widely shared within the School and are fundamental to its success.

- Commitment to excellence in all endeavors.
- Respect for individuals.
- Commitment to personal and professional development of faculty, staff, and students.
- Personal integrity and adherence to professional and ethical standards.
- Sensitivity to a diverse culture which creates community among faculty, staff, and students.
- Responsiveness and accountability to the School's community and region.
- Reliance on continuous improvement for ongoing success.

The School of Business offers a baccalaureate program leading to the Bachelor of Business Administration (BBA) degree with majors in accounting, computer information systems, economics, finance, management, and marketing. The economics and management majors have teacher certification options. Additionally, the School cooperates with the School of Liberal Arts in offering the Bachelor of Arts (BA) with a major in economics.

The School has four academic departments: Accounting, Computer Information Systems and Quantitative Methods, Finance and Economics, and Management and Marketing. Its Small Business Program has special outreach responsibilities to the business community.

### Upper-Division Entry into the School of Business

Students who meet university admissions requirements enter the School of Business as pre-business students. Admission to the upper-division (3000/4000 level) courses and to one of the six BBA degree majors requires a separate application. Enrollment in upper-division business courses is limited to (1) students who have been admitted to the School of Business and who are in good academic standing (i.e., not on probation) and (2) non-business majors who satisfy stated course prerequisites, are in good academic standing and have completed at least 60 semester hours.

To be considered for admission to the upper division and a major in the School of Business, students must file an application in the academic department of their intended major early during the second semester of their sophomore year. In addition to passing the Texas Academic Skills Program (TASP) tests in mathematics, reading, and writing as mandated by the Texas Legislature, applicants selected for admission, at a minimum, must:

1. have satisfactorily completed at least 60 semester hours, including the following courses or their equivalents:

English 1310, 1320	Accounting 2361, 2362
Mathematics 1319, 1329	Economics 2310, 2320
2. be in good academic standing.

## **General Requirements (BBA Degree)**

All students seeking the BBA must complete (1) a program of general studies courses prescribed by the University, (2) a common core of business courses outlined by the School of Business, (3) courses in the major program area specified by the appropriate academic department, and (4) a combination of free electives and restricted upper-division business electives to complement the degree program and achieve a minimum total of 128 semester hours. To ensure compliance with the course requirements for a BBA degree, freshmen and sophomores should follow the general sequence of courses specified for the pre-business curriculum in this section of the catalog. Juniors and seniors should follow the sequence outlined in the section of the catalog for their major academic department.

Students are reminded that it may be necessary to select free electives and advanced business electives that are designated as “writing intensive” (WI) to meet the university’s writing intensive course work. Also, students graduating from high school after January of 1988 who did not complete satisfactorily at least two years of the same foreign language in high school must complete two semesters (6-8 hours) of a single foreign language as part of the general studies curriculum.

A maximum of four semester hours of physical fitness perspective courses may be applied to degrees offered by the School of Business.

## **Fifty Percent Requirement**

A maximum of 50% of the semester hours of the required curriculum for the School’s various degree programs (excluding 9 hours of economics and 3 hours of statistics) may come from courses offered by the School of Business. Most degree programs in the School of Business require 128 semester hours. Therefore, a maximum of 64 semester hours of course work offered by the School of Business (not including 9 hours of economics and 3 hours of statistics) may be applied to a business degree.

Additionally, at least 50% of the semester hours in business required for the School’s various degree programs must be completed in residence at Southwest Texas State University.

## **Common Business Core**

To provide a common body of knowledge in business, all students seeking the BBA are required to complete the following courses or their equivalents:

- Accounting 2361, Introduction to Financial Accounting
- Accounting 2362, Principles of Managerial Accounting
- Business Law 2361, Legal Environment of Business
- Computer Information Systems 3370, Management Information Systems
- Economics 2310, Principles of Macroeconomics
- Economics 2320, Principles of Microeconomics
- Economics, Advanced elective
- Finance 3312, Business Finance
- Management 3303, Management of Organizations
- Management 3353, Business Communication
- Management 4330, Production and Operations Management
- Management 4335, Strategic Management and Business Policy
- Marketing 3343, Principles of Marketing
- Quantitative Methods 2333, Business Statistics

## **Community/Junior College Transfers\***

Community/junior college students who plan to transfer to the School of Business at SWT are advised to pursue the pre-business curriculum outlined in this section. The appropriate course equivalency guide should be consulted to resolve questions of course transferability. Courses acceptable for transfer by SWT will transfer at the level at which the courses were taken (i.e., acceptable courses from a community/junior college transfer as freshman or sophomore courses and cannot be used to satisfy junior/senior-level requirements). A maximum of 66 hours from an accredited community/junior college may be applied to a business degree.

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\*This policy is consistent with the transfer curriculum for business administration adopted January 30, 1981, and found in Transfer of Credit and Curricula Policies of the Texas Higher Education Coordinating Board, January, 1988.

## **Grade-Point Average for Graduation**

Students majoring in business must achieve the following minimum grade-point averages: (1) 2.00 on all credit course work completed at SWT and (2) 2.25 in the major (common business core, department major courses and restricted advanced business electives). Students seeking teacher certification may be subject to additional grade-point average requirements as determined by the School of Education.

## **Pre-Business Curriculum**

The following pre-business curriculum applies to all BBA degree majors except CIS majors (see page 143), and economics and management majors seeking teacher certification (see pages 149 and 154, respectively).

## Freshman Year

First Semester	Hours
English 1310.....	3
General Studies 1100.....	1
History 1310 .....	3
Mathematics 1319.....	3
Natural Science Perspective*.....	3-4
Physical Fitness Perspective (1 course).....	1
<hr/>	
	14-15

<b>Second Semester</b>	<b>Hours</b>
English 1320 .....	3
History 1320 .....	3
<b>Mathematics 1329</b>	<b>3</b>
Natural Science Perspective* .....	4
Physical Fitness Perspective (1 course).....	1
Philosophy 1305 .....	3
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	17

#### **Sophomore Year**

<b>First Semester</b>	<b>Hours</b>
Accounting 2361 .....	3
Economics 2310 .....	3
QMST 2333 .....	3
Literary Perspective* .....	3
Political Science 2310 .....	3
<hr/>	
	15

<b>Second Semester</b>	<b>Hours</b>
Accounting 2362 .....	3
Speech Communication 1310 .....	3
Economics 2320 .....	3
Business Law 2361 .....	3
Political Science 2320 .....	3

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\*See College of General Studies section of the catalog for course options that satisfy science and literary perspectives.

## Department of Accounting

*Chair and Professor-Flaherty. Professors-Humphrey, Meixner, Oliver. Associate Professors-Koogler, Moffeit, Montondon, Smith. Assistant Professors-Eikner, Morris, Stott. Instructors-Thoede. Lecturers-Chapman, Neunhoffer.*

The mission of the Department of Accounting is to develop in its students the skills and abilities necessary for a successful career in the accounting profession. To accomplish this mission, the faculty combine effective teaching with professional interaction, service, and a mix of intellectual activities. The Department strives for quality in its degree program which prepares students for careers in public practice, private industry, and government and not-for-profit organizations. Graduates may qualify to take the certified public accountant (CPA), certified management accounting (CMA), and/or other professional examinations. These credentials validate one's formal education, indicate a lifelong commitment to learning, and thus enhance career opportunities.

The accounting curriculum provides a broad education in theory, ethics and practice. The curriculum exposes students to the Internet and computer software (e.g. word processing, spreadsheet, accounting and tax software). Students completing the prescribed program of study earn the BBA degree with a major in accounting. Career options include positions in public accounting such as auditing, tax, and management consulting; corporate accounting; and accounting and auditing for governmental and other not-for-profit organizations.

Potential candidates for the Uniform CPA Examination in Texas: Current law requires 150 hours of education including 36 hours of accounting and 20 hours of related business courses. Although these hours may be satisfied with undergraduate courses, the Department suggests that the Master of Accountancy (MAcy) degree provides greater opportunities for initial employment and career success.

### **Bachelor of Business Administration Major in Accounting (Minimum required: 128 semester hours)**

#### **Junior Year**

<b>First Semester</b>	<b>Hours</b>
Accounting 3313, 3327 .....	6
Computer Information Systems 3370 .....	3
Finance 3312 .....	3
Management 3303 .....	3
***Social Science Perspective* .....	3

<b>Second Semester</b>	<b>Hours</b>
Accounting 3314, 3385 .....	6
Art, Dance, Music or Theatre 3313 .....	3
Management 3353 .....	3
**Accounting, advanced elective.....	3

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#### **Senior Year**

<b>First Semester</b>	<b>Hours</b>
Accounting 4313, 4365 .....	6
Economics, advanced elective* .....	3
**Accounting, advanced elective.....	3
***International Perspective* .....	3
Marketing 3343 .....	3

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## Second Semester Hours

Accounting 4316 .....	3
**Accounting, advanced elective* .....	3
Free elective* .....	3-4
Management 4330 .....	3
Management 4335	
(Capstone Course) .....	3

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\*Students are reminded that 18 semester hours of courses designated writing intensive (WI) must be completed at SWT to satisfy degree requirements.

\*\*To be chosen from Accounting 3363, 4314, 4328, 4366, 4388, or 4399.

\*\*\*See College of General Studies section of the catalog for course options that satisfy social science and international perspectives.

## Courses in Accounting (ACC)

To enroll in upper-division accounting courses, students must satisfy all prerequisites, be classified as a junior or senior, and be in good academic standing.

**2361 (ACCT 2301) Introduction to Financial Accounting. (3-0)** An introduction to financial accounting concepts and their application in the accounting process for business organizations, including financial statement preparation, analysis and communication of financial information and related ethical responsibilities.

**2362 (ACCT 2302) Principles of Managerial Accounting. (3-0)** An introduction to the use of accounting information as an aid to management decision making, budgeting, and the control process, including accounting reports, and related ethical responsibilities. Prerequisite: ACC 2361.

**3313 Intermediate Accounting I. (3-0)** An in-depth study of accounting concepts and standards with emphasis on current theory and practices relating to corporate financial statements particularly stressing asset and liability measurement and related problems of income determination and presentation. Prerequisite: ACC 2361 with a grade of "C" or better.

**3314 Intermediate Accounting II. (3-0)** A study of accounting problems related to the determination of stockholders' equity, earnings per share, the preparation of a Statement of Cash Flows, financial statement analysis, and accounting for changing prices. Specialized areas including accounting for leases, pensions, and income taxes. Prerequisite: ACC 3313 with grade of "C" or better.

**3327 Income Tax Accounting. (3-0)** A study of the tax concepts and issues involved in an individual's employment and personal life, and in sole proprietorships, property transactions, tax administration and tax practice. Regulatory and ethical issues are incorporated into the discussions. Prerequisites: ACC 2361 and ACC 2362.

**3363 Governmental Accounting. (3-0)** A study of concepts and techniques of fund accounting, and financial reporting for governmental and not-for-profit organizations including state and local government, universities, hospitals, and other public sector entities. Prerequisite: ACC 3313.

**3385 Accounting Systems. (3-0)** A study of elements of theory, procedures, and practice relating to system design and implementation for manual and computerized accounting information systems. Emphasis placed on system selection, data entry, file structure, internal control implementation, and report generation for various information end-users. Prerequisites: ACC 3313 and CIS 3370.

**4313 Auditing. (3-0)** A study of the underlying theory of financial auditing including professional ethics, auditing standards and procedures, and the role of auditor judgment in developing working papers and reports. Prerequisites: ACC 3314 and QMST 2333.

(WI) **4314 Advanced Auditing. (3-0)** A continuing study of financial auditing with a concentration on audit reports, computer auditing and sampling techniques, and the role of the SEC. Includes an introduction to the fields of internal and international auditing and audits of governmental and other not-for-profit entities. Prerequisite: ACC 4313.

**4316 Advanced Accounting. (3-0)** A study of accounting for business combinations and consolidated financial statements. Additional selected areas may include accounting for multinational operations, interim reporting, SEC reporting, partnership accounting, and governmental and not-for-profit accounting. Prerequisite: ACC 3314.

**4328 Advanced Tax Accounting. (3-0)** A study of the tax concepts and issues involved throughout the life cycle of corporations and partnerships from formation to sale or liquidation. Additional topics include gift, inheritances and estate planning. Regulatory and ethical issues are incorporated throughout the discussions. Prerequisites: ACC 3313 and ACC 3327.

**4365 Cost/Managerial Accounting. (3-0)** The study of cost/management accounting within the manufacturing and merchandising environment. Includes the analysis of cost accumulation, planning and control within an organization. Specific topics emphasized are job-order and process costing; standard costing; standard costing and variance analysis; absorption and direct costing; budgetary procedures; cost/volume profit analysis; and capital budgeting techniques. Prerequisites: ACC 2362 with a grade of "C" or better, ACC 3313, and QMST 2333.

(WI) **4366 Advanced Cost/Managerial Accounting. (3-0)** A study of advanced techniques and topics used in the internal decision making process for planning and control. Emphasis on accounting information used for management decisions, cost control, and quantitative analysis including contemporary issues. Prerequisite: ACC 4365.

**4388 Theory of Financial Accounting. (3-0)** An investigation of underlying theoretical concepts of financial accounting including the historical development of accounting theory, various advanced and special reporting topics, and the impact of academic and professional research. Emphasis on current developments in accounting standard-setting. Prerequisite: ACC 3314.

(WI) **4399 Directed Studies in Accounting. (3-0)** A one semester course of independent reading, tutorial sessions, individual research projects, or business internship. Open to students of senior rank with consent of the Chair of the Department of Accounting.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Catalog.**

## Department of Computer Information Systems and Quantitative Methods

*Chair and Associate Professor-Mehta. Professors-Cook, Johnston, Martin, Morgan, Shah, Stephenson. Associate Professors-Davis, Ploeger, Sivitanides. Instructors-White. Lecturers-Barclay, Jetton, Keefe.*

The mission of the Department of Computer Information Systems and Quantitative Methods is to provide optimal educational opportunities to students engaged in courses focusing on computer information systems and decision sciences. The department strives to create an environment for preparing individuals for a lifetime of learning and growth by producing graduates who understand the concepts of information systems and are capable of applying these concepts to business and government.

The computer information systems curriculum gives its majors the opportunity to study programming languages, data structures, and the integration of hardware and software systems with management practices. Students completing the prescribed program of study earn the BBA degree with a major in computer information systems. CIS graduates pursue careers as computer programmers, programmer/analysts, systems analysts, data base administrators, or data processing/information systems managers. Graduates work for government agencies, manufacturing concerns, financial institutions, retail firms, accounting firms, and oil companies.

### **Bachelor of Business Administration Major in Computer Information Systems\* (Minimum Required: 128 semester hours)**

#### **Freshman Year**

<b>First Semester</b>	<b>Hours</b>
English 1310.....	3
General Studies 1100.....	1
History 1310 .....	3
Math 1319 .....	3
**Social Science Perspective*** .....	3
Natural Science Perspective*** .....	3
Physical Fitness Perspective (1 course).....	1

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17-18

<b>Second Semester</b>	<b>Hours</b>
Speech Communication 1310 .....	3
<b>English 1320</b>	<b>3</b>
History 1320 .....	3
Math 1329 .....	3
Physical Fitness Perspective (1 course).....	1
Natural Science Perspective*** .....	4
	17

#### Sophomore Year

<b>First Semester</b>	<b>Hours</b>
Accounting 2361 .....	3
Computer Information Systems 2324 .....	3
Economics 2310 .....	3
**Literary Perspective*** .....	3
Political Science 2310 .....	3
	15

**Second Semester** **Hours**

Accounting 2362 .....	3
Quantitative Methods 2333 .....	3
Economics 2320 .....	3
Computer Information Systems 2371 .....	3
Political Science 2320 .....	3

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\*All CIS majors are expected to have a working knowledge of word-processing (e.g., MSWord), and spreadsheets (e.g., MS Excel). If a student does not have a working knowledge in these areas, he or she can acquire proficiency by successfully completing CIS 1323, Introduction to Microcomputer Applications. It is recommended that proficiency be demonstrated by the end of the freshman year.

\*\*Students are reminded that 18 semester hours of courses designated as writing intensive (WI) must be completed at SWT to satisfy degree requirements.

\*\*\*See College of General Studies section of the catalog for course options that satisfy social science, natural science, and literary perspectives.

**Junior Year****First Semester** **Hours**

Computer Information Systems 3370 .....	3
Computer Information Systems 3375 .....	3
Management 3303 .....	3
Business Law 2361 .....	3
Computer Information Systems 3374 .....	3
Philosophy 1305 .....	3

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Second Semester	Hours
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Computer Information Systems 3382 .....	3
Computer Information Systems 4348 .....	3
Management 3353 .....	3
Finance 3312 .....	3
Marketing 3343 .....	3

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Senior Year

First Semester	Hours
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Computer Information Systems 4323 .....	3
Computer Information Systems elective** .....	3
Art, Dance, Music or Theatre 3313 .....	3
Management 4330 .....	3
Free elective* .....	3-4

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15-16

Second Semester	Hours
Computer Information Systems 4322 .....	3
Economics, advanced elective* .....	3
*International Perspective*** .....	3
Management 4335	
(Capstone Course) .....	3
Free elective* .....	3

\*Students are reminded that 18 semester hours of courses designated as writing intensive (WI) must be completed at SWT to satisfy degree requirements.

\*\*To be chosen from: CIS 3322, 3372, 4322, 4323, 4344, 4346, 4348, 4349, and 4373.

\*\*\*See College of General Studies section of the catalog for course options that satisfy international perspective.

## Courses in Computer Information Systems (CIS)

To enroll in upper-division computer information systems courses, students must satisfy all prerequisites, be classified as a junior or senior, and be in good academic standing.

**1323 Introduction to Microcomputer Applications. (3-0)** An examination of technical and non-technical aspects of microcomputer systems with emphasis on applications software and its relationship with computer hardware. Various applications software including word processing, electronic spreadsheets, database management systems, graphics, and data communications will be covered. Cannot be applied toward the CIS major.

**2324 Techniques of Computer Programming. (3-0)** Introduction to and use of program development, top-down structured programming, step-wise refinement, and program correctness. The application of these programming techniques to for logical solutions to business data processing problems using a high-level symbolic programming language will be covered.

**2371 (COSC 1332) COBOL Programming. (3-0)** An introduction to COBOL computer programming in a business environment. Coverage will include language syntax, data and file structures, and operating systems facilities for implementing batch programs for report generation, input editing, subscript table handling, and sequential file processing. Prerequisite: CIS 2324.

**3322 Programming Techniques and Machine Organization. (3-0)** Concepts of problem analysis and solution using lower-level symbolic languages as a man-machine language interface. Emphasis is on program debugging techniques, program optimization, and data representation and translation. Prerequisite: CIS 2324.

**3370 Management Information Systems. (3-0)** A framework for the understanding of the role of Management Information Systems in organizations. The course includes related terminology and concepts, organizational information requirements and database and systems development principles. The objective is to prepare students to understand, evaluate, and appreciate the role of management information systems in today's business world, primarily from an end-user, managerial perspective.

**3372 DataBase Management and Retrieval. (3-0)** Concepts and methods in design, establishment, and maintenance of the database for a management information system. Included are one-way lists, two-way lists, circular lists, trees, queues, tables, stacks, and directories. Emphasis is on construction of file organizations and retrieval methods for accessing the database. Prerequisite: CIS 2371.

**(WI) 3374 Systems Analysis. (3-0)** Overview of the system development life cycle. Emphasis is on current system documentation flows, data flows, data structures, file designs, input and output designs and program specifications. Discussion of information gathering and reporting activities and of the transition from analysis to design.

**3375 Advanced COBOL. (3-0)** Intermediate and advanced features of the COBOL programming language. Programming in COBOL of a structured set of problems. Included are index sequential and direct access file processing, report-writer feature, sort feature, and subprogramming. Prerequisite: CIS 2371.

**3382 Computer Data Base Systems. (3-0)** Concepts and methodology of data base planning, design, development, and management of the computerized data base of a management information system. The emphasis is on logical database design and a study of hierarchical, network and relational implementations. A relational DBMS with a relational query language is used for the development of a business application system. Prerequisites: CIS 3374 and CIS 3375.

**4145 Applied Problems in Management Information Systems. (1-0)** A one-semester-hour course of independent reading, tutorial sessions, and individual research projects, including investigation and application of special topics in terms of software development as applied to problems in business. Open to students of senior rank with the consent of the department chair.

**4245 Applied Problems in Management Information Systems. (2-0)** A two-semester-hour course of independent reading, tutorial sessions, and individual research projects, including investigation and application of special topics in terms of software development as applied to problems in business. Open to students of senior rank with the consent of the department chair.

**4322 Computer System Development and Design. (3-0)** Concepts and methods of systems analysis and design for information processing in business following an introduction to general systems theory. Designed to allow the students to extend their knowledge in structured programming techniques and to undertake a development case study. Prerequisite: CIS 4323.

**4323 Client-Server Applications Development. (3-0)** Concepts and methods of developing and managing business information processing applications in a variety of computing environments. Coverage will include use of computer application development tools for designing and implementing specific business applications in client-server, micro-computer, workstation, multi-user and multi-tasking environments. Designed to allow students to extend their knowledge of system analysis/design. Prerequisites: CIS 3382 and CIS 4348.

**4344 Information Resource Management. (3-0)** A course providing a broad overview of the information resource management function. The course emphasizes information systems management, with particular attention on planning, organizing and controlling user services, managing the computer information systems development process, and the fundamentals of EDP auditing. Prerequisites: CIS 2324 and MGT 3303.

**4345 Applied Problems in Management Information Systems. (3-0)** A one semester course of independent reading, tutorial sessions, and individual research projects, including investigation and application of special topics in terms of software development as applied to problems in business. Open to students of senior rank with the consent of the department chair.

**4346 Decision Support Systems. (3-0)** This course is designed to provide broad, conceptual coverage of Decision Support Systems (DSS) and their applications in a variety of business situations. The primary thrust of the course will be the design and implementation of selected parts of DSS using the state-of-the-art visual programming tools. Students will gain hands-on experience both by preparing applications-oriented projects/cases and also by designing DSS graphical user interfaces (GUI). Prerequisite: CIS 2324.

**4348 Fundamentals of Data Communications. (3-0)** A course oriented to the technical concepts of data communications and network designs and how they relate to contemporary computer end-user environments. It incorporates the systems approach for understanding, designing, managing, securing, and implementing data communication networks. Students will analyze and design data communication networks for various business situations.

**4349 Fourth Generation Computer Languages. (3-0)** A course oriented to the concepts of fourth generation computer languages in computer information systems. It incorporates what fourth generation languages are, how they are used, and what factors contribute to their successful use. Students will design and code fourth generation computer language programs for business applications. Prerequisite: CIS 2371.

**\*4373 Special Topics in Computer Information Systems. (3-0)** The study of advanced concepts and techniques of computer information systems. Content will vary according to the needs and interests of the students, and according to the latest state-of-the-art in computing. Prerequisite: Consent of the chair of the department.

**4399 Internship in Computer Information Systems. (3-0)** A one semester course involving business internship. Emphasis is on the application of the computer information systems theory to business problems in the area of computer based management information systems. Open to students of junior or senior rank with the consent of the chair of the department.

## Courses In Quantitative Methods (QMST)

To enroll in upper-division quantitative methods and statistics courses, students must satisfy all prerequisites, be classified as a junior or senior, and be in good academic standing.

**2333 Business Statistics. (3-0)** A basic introductory course covering descriptive and inferential statistical techniques for business and economic decision making. Topics include measures of central tendency and dispersion, probability distributions, sampling distributions, confidence intervals, hypothesis testing, simple linear regression, and correlation analysis. Prerequisite: MATH 1329.

**3373 Introduction to Management Science. (3-0)** Introduction to the applications of management science techniques to support business decisions. Techniques include decision theory, linear programming and optimization models, queuing models, CPM/PERT, forecasting, simulation, and inventory models. Prerequisite: QMST 2333.

**4333 Intermediate Business Statistics. (3-0)** A course providing students with the concepts of employing computers in statistical business decision making. Topics include business forecasting, multiple regression analysis, time series analysis, analysis of variance, or multivariate data analysis techniques such as clustering, factor analysis, and multiple discriminate analysis. Students will use the computer and appropriate statistical techniques in various business applications. Prerequisite: QMST 2333.

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\*May be repeated with different emphasis.

## Department of Finance and Economics

*Acting Chair and Associate Professor-Sanders. Visiting Professor-Flammang. Professors-Blankmeyer, Carman, Gowens, McGee, Pluta, Savage. Associate Professors-Bible, Garnett, Kishan, Mogab, Stutzman, Yeagan. Assistant Professors-Charles, Dare, Davis, Englert, Garza, Hale, McClung, Pavlik, Showalter, Trinidad.*

The mission of the Department of Finance and Economics is to provide students involved in its educational programs an opportunity to recognize the importance of the life-long pursuit of truth, acceptance of individual responsibility, and contribution to the common good of society. Departmental programs seek to develop informed, critically thinking citizens capable of functioning in a highly complex, interdependent, global society. Majors are prepared for service, technical analysis, and management positions found in corporate, financial and public institutions. Majors also are prepared for financial planning services, teaching, and various graduate school programs.

The Department includes two closely related disciplines-finance and economics. Economics studies the use of scarce resources to satisfy unlimited wants. The department's introductory courses meet the need for basic economic and legal understanding in a complex modern society. Upper-division economics courses build upon this foundation. Finance addresses the behavior and determinants of securities prices, portfolio management, and the management of corporate and public funds. In addition, the relationships among monetary policy, the banking system, and financial markets are analyzed.



Students completing one of the three curricula offered by the department earn a BBA with a major in either economics (teacher certification is available) or finance, or they may earn a BA in economics. Finance graduates pursue careers in financial management, banking and other financial institutions, the securities industry, financial planning, and real estate. Students interested in obtaining the Certified Financial Planner™ designation should contact the chair of the Department. Economics graduates follow career paths similar to finance majors. Those with the BA degree often enter graduate or law school, and those with teaching certificates teach in the public schools.

**Bachelor of Business Administration**  
**Major in Finance<sup>†</sup>**  
**(Minimum Required: 128 semester hours)**

**Junior Year**

<b>First Semester</b>	<b>Hours</b>
*Social Science Perspective** .....	3
Computer Information Systems 3370 .....	3
Economics 3311 .....	3
<b>Free elective**</b>	<b>3</b>
Finance 3312 .....	3
Management 3303 .....	3

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<b>Second Semester</b>	<b>Hours</b>
Management 3353 .....	3
Free electives** .....	6
Finance 3313 .....	3
Marketing 3343 .....	3
Economics, advanced elective** .....	3

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\*See College of General Studies section of the catalog for course options that satisfy the social science and international perspectives.

\*\*Students are reminded that 18 semester hours of courses designated writing intensive (WI) must be completed at SWT to satisfy degree requirements.

†All courses are not offered each semester.

### Senior Year

<b>First Semester</b>	<b>Hours</b>
Accounting, advanced elective*** .....	3
Finance 3318 .....	3
Free elective** .....	0-1
Finance 4319 .....	3
*International Perspective** .....	3
Management 4330 .....	3

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15-16

<b>Second Semester</b>	<b>Hours</b>
Accounting, advanced elective*** .....	3
Art, Dance, Music or Theatre 3313 .....	3
Finance, advanced electives**** .....	6
Management 4335 (Capstone Course) .....	3

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\*See College of General Studies section of the catalog for course options that satisfy the social science and international perspectives.

\*\*Students are reminded that 18 semester hours of courses designated writing intensive (WI) must be completed at SWT to satisfy degree requirements.

\*\*\*Advanced electives in accounting to be chosen from the following: Accounting 3313, 3314, 3327, 3385 or 4365.

\*\*\*\*Advanced electives in finance to be chosen from the following: Finance 4317, 4318, 4321, 4325, 4331, or 4380.

## **Bachelor of Business Administration** **Major in Economics<sup>†</sup>** **(Minimum Required: 128 semester hours)**

### Junior Year

<b>First Semester</b>	<b>Hours</b>
*Social Science Perspective** .....	3
Computer Information Systems 3370 .....	3
Economics, advanced elective** .....	3
Economics 3314 .....	3
Free elective** .....	3
Management 3303 .....	3

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18

<b>Second Semester</b>	<b>Hours</b>
Management 3353 .....	3
Economics, advanced elective** .....	3
Economics 3315 .....	3
Free electives** .....	6
Finance 3312 .....	3

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### Senior Year

<b>First Semester</b>	<b>Hours</b>
<b>Business, advanced elective**</b>	<b>3</b>
Economics, advanced elective** .....	3
Free elective** .....	0-1
*International Perspective** .....	3
Management 4330 .....	3
Marketing 3343 .....	3

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15-16

<b>Second Semester</b>	<b>Hours</b>
Art, Dance, Music or Theatre 3313 .....	3
Business, advanced electives** .....	6
Economics, advanced elective** .....	3
Management 4335	
(Capstone Course) .....	3

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\*See College of General Studies section of the catalog for course options that satisfy social science and international perspectives.

\*\*Students are reminded that 18 semester hours of courses designated writing intensive (WI) must be completed at SWT to satisfy degree requirements.

†All courses are not offered each semester.

## **Bachelor of Arts** **Major in Economics<sup>†</sup>** **(Minimum Required: 128 semester hours)**

### Notes:

1. A major in economics requires 24 semester hours, including Economics 2310, 2320, 3314, 3315, and 3353.
2. Majors are encouraged to take a minimum of 12 semester hours of mathematics.
3. A teaching certificate, available with this degree plan, requires 21 semester hours of education courses and a second teaching field in place of the minor. Students should contact the department chair for specific course requirements.

<b>Freshman Year</b>	<b>Hours</b>
Speech Communication 1310 .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
History 1310, 1320 .....	6
Mathematics 1319, 1329 .....	6
Philosophy 1305 .....	3
Physical Fitness Perspective .....	1
*Natural Science Perspective* .....	7-8

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33-34

**Sophomore Year** **Hours**

Economics 2310, 2320 .....	6
Literary Perspective* .....	6
Minor as required** .....	6
Modern Language*** .....	6
Physical Fitness Perspective .....	1
Political Science 2310, 2320 .....	6
*Social Science Perspective** .....	3

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**Junior Year** **Hours**

Art, Dance, Music or Theatre 3313 .....	3
Economics 3314, 3315 .....	6
Economics, advanced elective** .....	3
Free elective** .....	0-1
International Perspective* .....	3
Minor as required** .....	15

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30-31

<b>Senior Year</b>	<b>Hours</b>
Economics 3353 (Capstone Course).....	3
Economics, advanced electives** .....	6
Free electives** .....	12
Minor as required** .....	9

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\*See College of General Studies section of the catalog for course options that satisfy the social science and international perspectives.

\*\*Students are reminded that 18 semester hours of courses designated as writing intensive (WI) must be completed at SWT to satisfy degree requirements.

\*\*\**For the BA, a proficiency level of successful completion of French, German, Japanese, Russian, or Spanish 2310 and 2320 is required.*

†All courses are not offered each semester.

## Courses in Finance (FIN)

To enroll in upper-division finance courses, students must satisfy all prerequisites, be classified as a junior or senior, and be in good academic standing. Students should note that not all courses are taught each semester. If a specific course is needed, students should verify the prospective course offering with the department.

**3301 Real Estate. (3-0)** A study of basic real estate principles. Topics include legal instruments and processes, property management, valuations, planning, development and sales, financing, and private and public interests.

**3312 Business Finance. (3-0)** An introduction to the finance function and to problems confronting financial managers. Topics include financial analysis, time value of money, capital budgeting, financial decisions, and working capital management. Prerequisite: ACC 2362.

**3313 Financial Management. (3-0)** An advanced study of intermediate and long-term financing alternatives, the incorporation of risk analyses in capital budgeting and the determination of capital costs, capital structure, and dividend policies. Prerequisites: QMST 2333 and FIN 3312.

**3318 Investment Analysis. (3-0)** A study of principles governing the investment of personal and institutional funds. Also examines information sources, exchanges, and regulation. Prerequisite: FIN 3312.

**3325 Fundamentals of Financial Planning. (3-0)** A study of modern money management, including budgeting, banking, real estate, insurance, consumer credit, and retirement and estate planning. Prerequisite: Junior standing.

**3330 Insurance. (3-0)** An analysis, from the consumer perspective, of risk and insurance principles and fire, marine, casualty, property, life, and health contracts.

(WI) **4317 Case Problems in Finance. (3-0)** An application of investment and financial management techniques and concepts to finance cases. Issues and alternatives are identified and evaluated. Prerequisites: QMST 2333 and FIN 4312.

**4318 Portfolio Analysis. (3-0)** An advanced course for finance majors interested in investment theory. Topics include the investment setting, specific industry and company analysis, portfolio analyses, and performance evaluation. Prerequisites: QMST 2333 and FIN 3318.

**4319 Financial Markets and Institutions. (3-0)** A study of financial assets, money and capital markets, institutional intermediaries, and the impact of interest rates. Affords a thorough examination of the financial system facilitating economic growth and development. Prerequisites: ECO 3311 and FIN 3312.

**4321 Real Estate Finance. (3-0)** An analysis of problems involved in selecting and financing real estate investment opportunities. Prerequisite: FIN 3312.

**4325 Advanced Financial Planning. (3-0)** A capstone course for finance majors interested in financial planning. Topics include ethics in the financial services industry, retirement planning and employee benefits, and estate planning. Prerequisites: FIN 3318 and FIN 3325.

**4331 International Finance. (3-0)** A study of international finance principles and their application in a multinational financial management setting. Prerequisite: FIN 3313.

### **4380 Topics in Finance:**

- A Advanced Capital Budgeting**
- B Financial Statement Analysis**
- C Options and Futures**
- D Commercial Bank Management**

**4380A Advanced Capital Budgeting. (3-0)** A study of capital budgeting techniques, analyses (including risk), and strategies and their implementation in capital asset investment. Prerequisite: FIN 3313.

**4380B Financial Statement Analysis. (3-0)** An introduction to the techniques used to analyze financial statements for investment, corporate financial management, and credit decisions. Prerequisites: FIN 3312 and ACC 3313.

**4380C Options and Futures. (3-0)** An introduction to options and futures, including how they are valued, traded and used to hedge investments and capital market transactions. Prerequisite: FIN 3318.

**4380D Commercial Bank Management. (3-0)** The application of a theoretical framework to provide a foundation for maintaining financial institution liability and meeting the challenges faced by commercial bank managers in a dynamic financial marketplace. Prerequisite: FIN 3313.

## Courses in Business Law (BLAW)

To enroll in upper-division business law courses, students must satisfy all prerequisites, be classified as a junior or senior, and be in good academic standing. Students should note that not all courses are taught each semester. If a specific course is needed, students should verify the prospective course offering with the department.

**2361 (BUSI 2301) Legal Environment of Business. (3-0)** A survey of basic features of the American legal system and legal aspects of business transactions. Topics include the nature and sources of law, court systems and procedures, agency, torts, contracts, ethics, and government regulation of business.

**3362 Commercial Law and Business Associations. (3-0)** A traditional business law course which examines negotiable instruments, business organizations, secured transactions, and bankruptcy law. Recommendation: BLAW 2361 is recommended prior to BLAW 3362.



**3363 International Business Law. (3-0)** A study of the principles of international business law which emphasizes the commercial activities of the multinational firm conducting business in global economic, political, social and cultural environments.

### **Courses in Economics (ECO)**

To enroll in upper-division economics courses, students must satisfy all prerequisites, be classified as a junior or senior, and be in good academic standing. Students should note that not all courses are taught each semester. If a specific course is needed, students should verify the prospective course offering with the department.

**Note:** Economics 2310 and 2320 are prerequisites to all advanced courses.

**2301 Economics of Contemporary Issues. (3-0)** A non-technical study of economic philosophies and problems that stresses the relevance of economic analysis to current societal problems. Not for business administration or economics majors; cannot be used as a prerequisite for any other economics course.

**2310 (ECON 2301) Principles of Macroeconomics. (3-0)** An introduction to the macroeconomics of a modern industrial society. Emphasis is on the analysis of national income, economic stability, fiscal policy, money and banking, economic growth, and international trade. Prerequisite: MATH 1319 or equivalent.

**2320 (ECON 2302) Principles of Microeconomics. (3-0)** An introduction to the microeconomics of a modern industrial society. Emphasis is on supply and demand, cost and price concepts, market structures, income distribution, and similar issues. Prerequisite: MATH 1319 or equivalent.

**3311 Money and Banking. (3-0)** A study of money and credit in the modern economy. Examines the development of modern money and banking systems, the structure of the Federal Reserve System, and monetary theory.

**3313 Labor Economics. (3-0)** A study of the application to labor markets of supply and demand principles. Topics include the work/leisure decision, time allocation in the household, the demand for education and training, the firm's use of labor inputs, the impact of unions, and discrimination in labor markets based on race and gender.

**3314 Intermediate Microeconomics. (3-0)** An in-depth study of theories of supply and demand; consumer and producer decision-making; firm pricing policies; product and resource markets under conditions of perfect and imperfect competition; and imperfect and asymmetric information.

**3315 Intermediate Macroeconomics. (3-0)** An analysis of the traditional and modern theories of inflation, unemployment, long-run economic growth, and stabilization policies for promoting economic stability.

**3317 International Economics. (3-0)** A study of the basis for trade among nations and the means of its financing, customs unions, balance-of-payments problems, and similar issues.

**3322 Economic Growth and Development. (3-0)** An introduction to the history and theory of economic growth, with special emphasis on presently under-developed regions and countries.

(WI) **3327 Public Finance. (3-0)** A study of the growth of the revenue and debt of the United States, taxation and tax incidence theory, and the effect of public expenditures and taxes on economic growth.

(WI) **3334 Business Enterprise and Public Policy. (3-0)** A survey of the development and structure of American industry and of governmental regulation of business.

**3335 Managerial Economics. (3-0)** A study of the application of economic analysis in the formulation of business policies. Includes demand analysis and pricing policies.

(WI) **3344 Economic History of the United States. (3-0)** A survey of United States economic history from colonial times to the present. See History 3344.

**3353 Comparative Economic Systems. (3-0)** An analysis of the theory and practice of capitalism, socialism, and communism.

**4301 History of Economic Thought. (3-0)** A study of major trends in economic theory and the economic thinkers responsible for them.

**4381 Selected Topics in Economics. (3-0)** A directed study of selected topics in economics.

## Department of Management and Marketing

Chair and Associate Professor-Keeffe. Professors-Abrahamson, Bell, Chiodo, Eure, Halatin, Hunnicutt, Middlebrook, Olney, Patterson, Piersol, Stutts, Taylor, Wilson. Associate Professors-Milhomme, Minifie, Ross. Assistant Professors-Natesan, Nienhaus, Smith, Temponi. Instructor-Gervais, Zigrossi. Lecturers-Augustin, Canterbury, Dietert, Hinkson, West.

The mission of the Department of Management and Marketing is to educate students to function and grow in a dynamic business world. To accomplish this mission, faculty combine effective teaching with scholarship and professional service. Faculty strive for quality in all department course offerings and undertakings to help prepare students for leadership and service in private and public organizations. The Department offers courses leading to the BBA degree with majors in management or marketing and includes programs leading to teacher certification in management. Programs prepare students for challenging careers in a variety of business and governmental organizations, and secondary education. The management major prepares students for a broad range of positions, including personnel management, industrial relations, production management, hospital administration, office management, and sales management. Students choosing teacher certification pursue careers as secondary education teachers or in the private sector. Marketing majors typically pursue careers in sales and sales management, product and brand management, retail management, physical distribution, marketing research, advertising, or international marketing.

### **Bachelor of Business Administration Major in Management (Minimum Required: 128 semester hours)**

#### **Junior Year**

<b>First Semester</b>	<b>Hours</b>
Art, Dance, Music or Theatre 3313 .....	3
Computer Information Systems 3370 .....	3
Management 3303 .....	3
Marketing 3343 .....	3
Free elective* .....	3
*Social Science Perspective*** .....	3

<b>Second Semester</b>	<b>Hours</b>
Management 3353 .....	3
Business, advanced elective* .....	3
Finance 3312 .....	3
*International Perspective*** .....	3
Free elective* .....	3

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15

### Senior Year

<b>First Semester</b>	<b>Hours</b>
Business, advanced elective* .....	3
Economics, advanced elective* .....	3
Management 4330 .....	3
Management 4373, 4375 .....	6
Free elective* .....	3

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18

<b>Second Semester</b>	<b>Hours</b>
Business, advanced elective* .....	3
Free elective* .....	3-4
Management advanced electives** .....	6
Management 4335 (Capstone Course) .....	3

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15-16

\*Students are reminded that 18 semester hours of courses designated writing intensive (WI) must be completed at SWT to satisfy degree requirements. The advanced elective in business may be chosen from any 3000-4000 level course in the School of Business not required for the major.

\*\*Advanced electives in management must be chosen from the following: 3340, 4336, 4340, 4371, 4377, 4380, Internship, and SIFE.

\*\*\*See College of General Studies section of the catalog for course options that satisfy the social science and international perspectives.

## **Bachelor of Business Administration** **Major in Marketing** **(Minimum Required: 128 semester hours)**

### Junior Year

<b>First Semester</b>	<b>Hours</b>
Art, Dance, Music or Theatre 3313 .....	3
Computer Information Systems 3370 .....	3
Free elective* .....	3
Management 3303 .....	3
Marketing 3343 .....	3
*Social Science Perspective** .....	3

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18

Second Semester	Hours
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Management 3353	3
Finance 3312 .....	3
*International Perspective** .....	3
Free elective* .....	3
Marketing 3355, 335 .....	6

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18

Senior Year

First Semester	Hours
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Business, advanced elective* .....	3
Economics, advanced elective* .....	3
Management 4330 .....	3
Marketing 4320, 4321 .....	6

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15

<b>Second Semester</b>	<b>Hours</b>
Business, advanced elective* .....	3
Free elective* .....	3-4
Management 4335	
(Capstone Course) .....	3
Marketing 3367, 4337 .....	6

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15-16

**Bachelor of Business Administration**  
**Major in Management**  
**(Minimum required: 136-137 semester hours**  
**with teaching certification)**

<b>Freshman Year</b>	<b>Hours</b>
Management 1325 .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
History 1310, 1320 .....	6
Mathematics 1319, 1329 .....	6
Speech Communication 1310 .....	3
Phy. Fitness Perspective	
(two courses) .....	2
Natural Science Perspective** .....	7-8

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34-35

Sophomore Year	Hours
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Accounting 2361, 2362 .....	6
QMST 2333 .....	3
Business Law 2361 .....	3
Economics 2310 .....	3
*English (Literature)** .....	6
Political Science 2310, 2320 .....	6
Social Science Perspective (Economics 2320) .....	3
Philosophy 1305 .....	3

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33

Junior Year	Hours
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Computer Information Systems 3370 .....	3
Management 3303, 3365 .....	6
Management 3353 .....	3
Art, Dance, Music or Theater 3313 .....	3
Economics 3353 (Intl. Persp./ Adv. Eco.) .....	3
Curriculum and Instruction 3325, 4332 .....	6
Finance 3312 .....	3
Marketing 3343 .....	3
Reading 3324 .....	3

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33

<b>Senior Year</b>	<b>Hours</b>
Management 4315, 4373, 4375 .....	9
*Management, advanced electives*** .....	6
Curriculum and Instruction 4341, 4343.....	6
Education 4681 .....	6
Finance 3325 .....	3
<b>Management 4330, 4335</b>	<b>6</b>



\*Students are reminded that 18 semester hours of courses designated writing intensive (WI) must be completed at SWT to satisfy degree requirements.

\*\*See College of General Studies section of the catalog for course options that satisfy literature, natural science, and social science perspectives.

\*\*\*Advanced electives in management must be selected from MGT 3340, 4336, 4340, 4371, 4377, and 4380, Internship, and SIFE.

## Courses in Management (MGT)

To enroll in upper-division management courses, students must satisfy all prerequisites, be classified as a junior or senior, and be in good academic standing.

**1321 (BUSI 1301) Introduction to Business. (3-0)** Presents an overview of the field of business that is applicable to all types of organizations in today's dynamic social environment. Topics include business as a social system, business functions (Marketing, Human Resources, Finance, etc.) and current issue in business. Enrollment limited to students with less than 60 total semester credit hours.

**3303 Management of Organizations. (3-0)** A study of management functions in modern organizations, the internal and external environmental factors affecting organizational efficiency, and the application of quantitative and behavioral science to management study.

**3340 Small Business Management. (3-0)** An analysis of the principles and problems involved in managing a small business. Topics include entrepreneurship, forms of ownership, location analysis, physical facility requirements, sources of funds, marketing, and legal and environmental issues affecting small businesses. Prerequisite: MGT 3303.

(WI) **3353 Business Communication. (3-0)** An introduction to the uses of communication in modern organizations. The course provides students the opportunity to gain practice in making decisions involving selection and organization of communication content, in choosing an appropriate medium for presentation of information, and developing an effective writing style. The course includes the study of the theory of business communication, including communication models, general semantics, and the causes of miscommunication. Prerequisites: ENG 1310, ENG 1320, and COMM 1310

(WI) **3365 Administrative Information System I. (3-0)** Office information and decision support systems are examined as critical elements in business data and information systems. Emphasis is given to information processing considerations at the systems level, including analysis and management of support activities such as data and records management, electronic filing and retrieval systems, word processing, micro and reprographics, and (tele-)communications. The course includes discussions of current and future technological trends. Prerequisite: MGT 3303.

**4315 Business Principles, Issues and Trends. (3-0)** review of the fundamentals of business administration as applied to contemporary business problems. Also, a discussion of current business issues and trends. Prerequisite: MGT 1325. Open to students seeking certification only.

**4330 Production and Operations Management. (3-0)** A study of the various aspects of managing the production and operational functions of manufacturing and service organizations. Examines plant location, layout of facilities, inventory and cost control, systems analysis, statistical quality control, and work flow planning; simulation, queuing theory, network models, and liner programming; and productivity and energy management. Prerequisite: QMST 2333.

(WI) **4335 Strategic Management and Business Policy. (3-0)** An integrative course in strategic management and business policy that utilizes the case method of instruction. A capstone course involving the analysis of business through the application of principles of accounting, communications, economics, finance, management, marketing, quantitative methods, and related disciplines. Prerequisites: MGT 3303, MKT 3343, FIN 3312, and QMST 2333. Capstone course and open only to seniors in business.

**4336 Problems of Small Business Management. (3-0)** An analysis of the organization and operation of a small business. Provides experience in small business consulting, including problem identification and solution recommendation and implementation. Open to all business majors. Prerequisite: MGT 3303.

**4340 Quality Management and Beyond. (3-0)** A conceptual and practical overview of the role of quality as a system for establishing a "world class" competitive position. It explores philosophies and ideas of the leading thinkers in quality management, impact of process improvement methods, quality requirements definition and organizational change as it applies to total quality initiatives. Prerequisites: QMST 2333 or consent of professor. Management 4330 is recommended.

**4371 Social Responsibility of Business. (3-0)** An integration of a number of disciplines and value systems which affect and determine the proper role of business in satisfying the needs of customers, creditors, community, government, stockholders, managers, employees, suppliers, and society in general. Prerequisite: MGT 3303.

**4373 Human Resource Management. (3-0)** A study of the principles of human resource management in public and private institutions. Stresses the human resource aspects of recruitment, selection and placement, performance appraisal and compensation. Prerequisite: MGT 3303.

**4375 Organizational Behavior and Human Relations. (3-0)** A study of the role of the individual in formal organizations, group dynamics, motivation theory, communication and leadership. Integrates behavioral science concepts. Prerequisite: MGT 3303.

(WI) **4377 Labor Relations and Collective Bargaining. (3-0)** A study of unions and their impact on private and public employment. Examines union growth and governance, collective bargaining, contract negotiation and administration, and arbitration and mediation. Prerequisite: MGT 4373.

**4380 Compensation Management. (3-0)** A study of the compensation administration in public and private organizations, with stress on the determinants of general wage levels; job analysis and evaluation; incentive, merit, seniority, and executive compensation; fringe benefits, and wage and salary control. Prerequisite: MGT 4373.

## Courses in Marketing (MKT)

To enroll in upper-division marketing courses, students must satisfy all prerequisites, be classified as a junior standing, and be in good academic standing.

**3343 Principles of Marketing. (3-0)** A study of the marketing process. Examines the role of the consumer, marketing institutions, and the social and legal environment of business.

**3355 Retailing. (3-0)** A study of the principles of retail store management, including market and trade area analysis, store location and design, organization and operation management, merchandising, inventory control, and promotion and pricing policies. Prerequisite: MKT 3343.

**3357 Sales and Sales Management. (3-0)** A study from the perspective of buyer and seller of selling techniques. Examines the role of sales representatives from prospecting through closing and problems confronting them. Prerequisite: MKT 3343.

(WI) **3367 Promotional Strategy. (3-0)** Analysis of promotional methods used in marketing and their relation to other business functions. Examines advertising, selling, and sales promotion. Prerequisite: MKT 3343.

**3377 International Marketing. (3-0)** A study of the international planning and coordination of marketing functions, marketing policies, and the analysis of marketing on an international scope including environmental and cultural aspects. Prerequisite: MKT 3343.

(WI) **4320 Marketing Research. (3-0)** A comprehensive study of marketing research. Examines the research process, including problem formulation, developing a research plan, sampling, data analysis, and preparing a research report. Prerequisites: QMST 2333 and MKT 3343.

**4321 Consumer Behavior. (3-0)** A study of the role of the consumer in marketing. Considers the motivation, personality, aptitude, perception, lifestyle, and decision-making processes of consumers. Prerequisite: MKT 3343. This course is open only to seniors majoring in marketing.

(WI) **4337 Marketing Management. (3-0)** An integrative course that applies management concepts and techniques to the solution of marketing problems. Analyzes market segments and product positioning, product and product line price, channels of distribution, and promotion. Prerequisites: QMST 2333, MKT 3343, and six additional hours of marketing courses.

**4397 Special Topics in Marketing. (3-0)** Directed study and research in selected marketing topics, including the development of a promotional or marketing plan. Course can be offered as individual instruction or as an organized class. Prerequisite: Consent of instructor and Chair.



# SCHOOL OF EDUCATION

**John J. Beck, Ph.D., Dean**

**Leslie L. Huling, Ed.D., Associate Dean**

**Paul C. Paese, Ph.D., Associate Dean**

**Department Chairs**

**Curriculum and Instruction** Charles H. Dolezal,  
Ph.D.

Educational Administration and  
Psychological Services..... C. Sue McCullough, Ed.D.  
Health, Physical Education and  
Recreation ..... J. Edward Burkhardt, Ph.D.

## SCHOOL OF EDUCATION

Teacher preparation was the original mission of Southwest Texas State Normal School when it opened in 1903, and today faculty in the School of Education continue to focus their efforts on this primary mission. SWT's teacher education program offers high quality preparation for elementary and secondary teachers.

The School of Education prepares elementary school teachers with specializations in bilingual education, early childhood, special education, reading, and in almost every academic area. The school also prepares teachers for certification in physical education (elementary and secondary), health education (elementary and secondary), and dance (secondary). Additionally, a major in athletic training is available through the physical education program. Students interested in certification in other secondary areas complete the professional development courses offered by the School of Education and an academic major offered by a department outside the School of Education. Several non-certification programs are offered by the school through the Department of Health, Physical Education and Recreation.

The three academic departments in the School of Education are Curriculum and Instruction, Educational Administration and Psychological Services, and Health, Physical Education and Recreation. The web address for the School is: <http://www.schooledu.swt.edu/SWTSoe.html>.

### Academic Advising Center

The School of Education Academic Advising Center is conveniently located on the second floor of the Education Building in Room 2026 and is open 8:00 A.M.-5:00 P.M., Monday through Friday. The mission of the Center is to provide accurate and timely advice to students regarding admission to, progress through, and completion of degree and certificate programs administered by the School of Education. The purpose of the Academic Advising Center is to provide a full range of services for students seeking a degree or certificate from the School of Education. Services include, but are not limited to, exploration of life goals, exploration of career and educational goals, selection of educational programs, selection of a major and minor, preparation of degree outlines and summaries, scheduling of courses, and scheduling of classes.

Faculty members in the School of Education, as well as Academic Advising Center staff, are available to discuss career goals and opportunities available within each program area. Faculty can be contacted through the Department of Health, Physical Education and Recreation (512-245-2561) or the Department of Curriculum and Instruction (512-245-2157).

All students in the School of Education should contact the Academic Advising Center for an initial appointment to complete paperwork necessary for entering programs in the School of Education. Following this, students should see the School of Education Advisor once each semester for assistance with and approval for courses for upcoming registrations.

Students can contact the Academic Advising Center in the following ways:

Office location:	Education Building, Room 2026
Telephone:	512-245-3050
Fax:	512-245-8345
Registration Helpline:	512-245-3104
Web site:	<a href="http://www.schooledu.swt.edu/advctr/EducAdviseCtr.html">http://www.schooledu.swt.edu/advctr/EducAdviseCtr.html</a>

### Admission to Teacher Education

Students who want to be certified as elementary, secondary, or all-level teachers should follow the curriculum sequence outlined by their major departments. They should request advisers who will help them plan schedules that will lead to both graduation and certification, and they are encouraged to join student organizations which are related to the teaching profession.

The requirements to be admitted to teacher education (to enroll in upper level teacher education classes) are as follows:

1. Junior standing.
2. An SWT grade point average of 2.5 or better.
3. A grade of C or better in English 1310 and 1320 or their equivalents.
4. A grade of C or better in Math 1315 or 1319 or 2417 or 2471 for Interdisciplinary Studies majors.
5. A grade of C or better in Curriculum and Instruction 3315 (elementary) or Curriculum and Instruction 3310 (secondary and all-level).
6. Passing scores on the TASP. Students who were exempt from the TASP because of scores on alternative tests or grades in selected courses should be prepared to present documentation to support the exemption. Beginning with the September 1996 TASP Test administration, students seeking admission to teacher education via TASP must score 220 or higher to pass the writing section and 230 or higher to pass reading and mathematics unless they have previously passed with a score of 220 on these sections. Students may not enroll in any professional development course in education without proof of passing the TASP.

### Student Teaching

The requirements to be admitted to student teaching are as follows:

1. Admission to Teacher Education.
2. An SWT grade point average of 2.5 or better.
3. Validation of required pre-student teaching field experiences.
4. A grade of C or better in all assigned courses in the professional sequence prior to student teaching.
5. A grade point average of at least 2.50 in the teaching field(s) or specialization(s) with no grade below a "C".
6. Approval from the chair of the department of the student's major teaching field.

## Graduation and Certification

Graduation (undergraduates only): In addition to the other general graduation requirements listed in this catalog, the following graduation requirements must be met by students seeking teacher certification:

1. An SWT grade-point-average of at least 2.5.
2. Successful completion of student teaching.
3. Grades of "C" or better in each course in the assigned professional sequence.
4. A grade point average of at least 2.50 in the teaching field(s) or specialization(s) with no grade below a "C".
5. Timely application for graduation. Candidates for degrees offered in the School of Education must complete a graduation application in the School of Education Academic Advising Center. Majors in other schools must apply in the office of the dean of their majors or their School's academic advising center.
6. Passing scores on the TASP or proof of an exemption because of scores on an alternative test or grades in selected courses. Contact the School of Education Academic Advising Center for procedural details.

**Certification.** Upon application by qualified students, the Director of Teacher Certification recommends the issuance of the appropriate certificate by the State of Texas. The certification process includes the following steps:

1. Completion of at least a baccalaureate degree.
2. Completion of the appropriate teaching fields or specializations with grades of "C" or better in each required course.
3. Completion of the appropriate professional sequence of courses with a grade of "C" or better in each.
4. Passing scores on the appropriate Examination(s) for the Certification of Educators in Texas (ExCET).
5. Filing a State application form and the necessary processing fees with the School of Education Academic Advising Center (2026 Education Building).

**Fitness for the Teaching Profession.** Students who are admitted to teacher education are expected to meet specified non-academic standards which are necessary to be competent teachers. The intent is to ensure that the students recommended for teacher certification are able to effectively and independently carry out the duties for which they are being prepared. The fitness criteria include physical characteristics, personality characteristics, responsibility characteristics, communication skills, social relationships, personal responsibilities, and commitment to the teaching profession. Students who have been identified with a demonstrable discrepancy by two or more distinct professors or cooperating teachers will meet with the Teacher Education Admission and Retention (TEAR) Committee to discuss options available for progress in Teacher Education to continue.

## Professional Curricula

**Elementary Teachers.** Students who want to be certified to teach at the elementary school level should seek advice and application information from the School of Education Academic Advising Center. Students should refer to the Department of Curriculum and Instruction section of this catalog on page 171 concerning admission and degree requirements, including field requirements prior to student teaching.

**\*Secondary Teachers.** Students seeking secondary certification must complete the following 15 hour sequence of courses prior to the beginning of student teaching: CI 3310, 3325, 4332, 4343, and RDG 3323. After completing these courses, secondary students will complete ED 4681 (student teaching ).

**\*All-level Teachers.** Students seeking all-level certification must complete the following 15 hour sequence of courses prior to the beginning of student teaching: CI 3310, 3325, 4332, 4343, and RDG 3323. After completing these courses, all-level students will complete ED 4380 and ED 4381 (student teaching).

## SECONDARY AND ALL LEVEL TEACHING FIELDS

Students in the Secondary and All Level Teacher Education Program participate in a nine credit hour block of courses taught two days a week at either a middle school or high school. This internship experience is a unique opportunity to learn in actual classrooms, in a partnership with university and public school faculty. It fulfills the field experience requirement for teaching in the public schools. The field block is selected after completion of CI 3310, the first course in the professional development sequence.

### Secondary and All-Level Teaching Fields

**Option I** (grades 6-12) is available to those students who want to concentrate on a single teaching field. Generally, this field will correspond to a selected major, and the hours required will be at least the number required in the major. If a second teaching field is desired, refer to the Option II section below.

#### Art and Design

(42 hours) ..... ArtF 1301, ArtF 1302, ArtF 1303, ArtH 2301, ArtH 2302, ArtS 2321, two of the following [ArtS 2351, ArtS 3362 (prerequisite TECH 1450), ArtS 2371, or ArtS 2391], two of the following (ArtS 2311, ArtS 2331, ArtS 2341, or ArtS 2381), ArtT 2371, ArtT 3373, ArtT 3374, and ArtT 4375.

**Biology**

(48 hours) ..... Biology 1410, 1420, 2430, 2460, 3400, 3440, 4408, 4416, and any two of the following: 3410, 3461, 3470, 3490, 3495, 4410, 4411, 4412, 4413, 4415, 4420, 4421, 4422, or 4465, Chemistry 1410 and 1420.

**Chemistry**

(37-45 hours) ..... For BA degree, Chemistry 1410, 1420, 2410, 2420, 3245, 3330, 3340, 3410, 4241, 4341, and 3 hours from 4375, 4385, 4333, or 4299 (must be repeated). For BS degree, the above, plus Chemistry 4231, 4331, and 3 additional hours selected from 4375, 4385, 4333, or 4299 (must be repeated).

**Computer Science**

(37 hours) ..... Computer Science 1308, 1318, 2308, 2318, 3358, 3409, 4348, 4358, 4368, and three more advanced (3000-4000) computer science courses.

**English**

(36 hours) ..... English 1310, 1320; any two of the following: 2310, 2320, 2330, 2340, 2359, 2360; 3301; at least one course from Group A (British Literature); at least two courses from Group B (American Literature); at least one course from Group C (World Literature); at least two courses from Group D (Forms, Language and Writing) are required: 3319 or 4310 and 3389; one other advanced course from any of the four groups. Note: At least two courses must focus on literature before 1800. At least one advanced course must focus on a single author (3343, 3354, 4351, 4355, or 4358); students are encouraged to select at least 1 course which centers on genre, theme, or theory.

**French**

(38 hours) ..... French 1410, 1420, 2310, 2320, 3301, 3302, 3304, 3310, 3370, 4340, 4303, and Linguistics 4307.

**Geography**

(29 hours) ..... Geography 1309, 1310, 2410, 3303, 3309, 3313, 3329, 4340, and one of the following: 3411, 3416, or 4426.

**German**

(38 hours) ..... German 1410, 1420, 2310, 2320, 3301, 3302, 3310, 3370, 4302, 4340, 4302 or 3370, and Linguistics 4307.

**Government \***

(36 hours) ..... Political Science 1308 and/or 1309, 2310, 2320, 4398, and 24 hours of advanced level courses taken from the following five groups: (I) Political Theory and Methodology; (II) American Government; (III) Public Law and Public Administration; (IV) Comparative Government; and (V) International Relations. At least one course must be taken from four of Groups I-V. \* The teaching field is government, but the major is political science.

**Health**

(36 hours) ..... Health Education 1310, 2338, 2340, 2354, 3301, 3342, 3348, 3350, 3360, 4311, 4336, and 4354 or Family and Consumer Sciences 3362.

**Industrial Technology**

(37-38 hours) ..... Technology 1320, 1330 or 1332, 1413, 1450 or 2365, 2344 or 2370, 3313 or 4360, and 18 hours of advanced technology courses.

**Mathematics**

(36 hours) ..... Mathematics 2471, 2472, 3305, 3315, 3330, 3377, 3380, 4304, 4307, 4311, and 4 semester hours of electives.

**Physical Education (limited to use with a major in Athletic Training)**

(48 hours) ..... Five (5) hours PE major/minor activities in addition to the Physical Fitness Perspective requirements, PE 1296, 1310, 2156, 2296, 2356, 3296 (twice), 3317, 3320, 3322, 3326, 3336, 3346, 3356, 4296 (twice), and 4351. \* The teaching field and prefix are still called physical education even though the degree will be a Bachelor of Exercise and Sports Science.

**Physics**

(41 hours) ..... For BS degree, Physics 1430, 2425, 2435, 3312, 3320, 3411, 3414, 4310, 4312, 4315 and at least two additional courses from Physics 3315, 3316, 3317, 4311, 4340 or a course approved by the department chair.

**Spanish**

(38 hours) ..... Spanish 1410, 1420, 2310, 2320, 3308, 3310, 4340, Linguistics 4307, two of the following: 3301, 3302, 3305, 3306, 3370, 3371, and two of the following: 4302, 4306, 4330, 4361, 4362.

**Speech Communication**

(39 hours) ..... Speech Communication 1310, 1315, 1340, 2325, 2330, 3315, 3333, 3327, 2338, 4310, 4320, and two upper division courses in speech communication.

**Theatre**

(40 hours) ..... Theatre 1354, 1364, 1365, 1358, 2111 (Theatre Activities), 2338, 3344 or 3346 or 4345, 4364, 3320, 3321, 4357, 4310, 4365, and 4320.

**Option II** (grades 6-12) allows students to qualify for two teaching fields. Generally, this is accomplished by completing an Option I (from the list above) in the major department, and completing one of the following sets of courses as a minor. In those cases where the selected combination of Option I and Option II fields causes the degree to exceed 139 required hours, some certification hours may be delayed until after the degree is awarded.

**Art and Design**

(36 hours) ..... ArtF 1301, ArtF 1302, ArtF 1303, two of the following [ArtS 2321, ArtS 2351, ArtS 2371, ArtS 2391, or ArtS 3362 (prerequisite TECH 1450)], two of the following (ArtS 2311, ArtS 2331, ArtS 2341, or ArtS 2381), ArtT 2371, ArtT 3373, ArtT 3374, ArtT 4375, and ArtH 2301 or ArtH 2302.

**Biology**

(40 hours) ..... Biology 1410, 1420, 2430, 2460, 3400, 4408, 4416, and one of the following: 3406, 3410, 3461, 3470, 3490, 3495, 4411, 4412, 4413, 4415, 4421, 4422, or 4465, Chemistry 1410 and 1420.

**Chemistry**

(28 hours) ..... Chemistry 1410, 1420, 2410, 2420, 3410, and at least 8 hours from the following: 4375, 4385, 4275, 4333, 4231, or 4331.

**Computer Science**

(24 hours) ..... Computer Science 1308, 1318, 2308, 2318, 3358, 4348, 4358, and 4368.

**Dance**

(32 hours) ..... Dance 2208, 2209, 3330, 3332, 3365, 4366, 4367, 4368, 4369 Capstone course, PFW 1180H, Physical Education 1180a, PFW 1180I, Physical Education 1181c, one hour elective dance activity, and Physical Education 1181a and 1182a taken as general studies requirement.

**Earth Science (post-baccalaureate option only)**

(34 or 35 hours) ..... Geology 1410 and 1420, Geography 3305; Physics 1140 and 1340; Chemistry 1410; and Biology 4402, 4403, 408, and 3422 (or Geography 3335).

**English**



(36 hours) ..... English 1310, 1320; any two of the following: 2310, 2320, 2330, 2340, 2359, 2360; 3301; at least one course from Group A (British Literature); at least two courses from Group B (American Literature); at least one course from Group C (World Literature); at least two courses from Group D (Forms, Language and Writing) are required: 3319 or 4310 and 3389; one other advanced course from any of the four groups. Note: At least two courses must focus on literature before 1800. At least one advanced course must focus on a single author (3343, 3354, 4351, 4355, or 4358); students are encouraged to select at least one course which centers on genre, theme, or theory.

**French**

(29 hours) ..... French 1410, 1420, 2310, 2320, 3301, 3302, 3370, 4340, and Linguistics 4307.

**Geography**

(25-29 hours) ..... Geography 1309, 1310, 2410, 3303, 3309, 3313, 3329, 4340 (25 hours for non-majors) and majors must take one of the following: 3411, 3416, or 4426.

**German**

(29 hours) ..... German 1410, 1420, 2310, 2320, 3310, 3370, 4340, 3301 or 3302 or 4302 or 4303, and Linguistics 4307

**Government \***

(24 hours) ..... Political Science 1308 and/or 1309, 2310, 2320, 4398, and 12 hours of advanced level courses taken from the following 5 groups: (I) Political Theory and Methodology; (II) American Government; (III) Public Law and Public Administration; (IV) Comparative Government; and (V) International Relations. At least one course must be taken from four of Groups I-V. \* The teaching field is government, but the major is political science.

**Health**

(27 hours) ..... Health Education 1310, 2338, 2340, 2354, 3342, 3348, 4311, 4336, and 3301 or 3350 or 3360.

**History**

(30 hours) ..... History 1310, 1320, 2311, 2312, and two courses from Group A, two courses from Group B, two courses from Group C.

**Mass Communication**

(18 hours) ..... Mass Communication 1301, 1313, 2374, 3383, 3390, and 4301.

**Mathematics**

(29 hours) ..... Mathematics 2471, 2472, 3305, 3315, 3330, 3377, 3380, 4304, and 4307.

**Physical Education \***

(32 hours) ..... Five (5) hours PE major/minor activities, 1310, 2356, 3317, 3320, 3322, 3329, 4323, 4351, and 3 hours elective theory. \* The teaching field and prefix are still called physical education even though the degree will be a Bachelor of Exercise and Sports Science.

**Physical Science (post-baccalaureate option only)**

(28 hours) ..... Chemistry 1410 and 1420, Physics 1410 and 1420, two advanced courses in either chemistry or physics to be approved by the Dean of the School of Science, and Physics 4336 and 4337 (or Chemistry 4336 and 4337.)

**Physics**

(25 hours) ..... Physics 1430, 2425, 2435, 3312, 3414, and at least six hours of advanced physics.

**Psychology**

(36 hours) ..... Psychology 1300, 2315, 3301, 3302, 3 hours from each of Groups 1, 2, 3, and 4. Twelve hours psychology electives; six of these hours must be advanced.

**Spanish**

(29 hours) ..... Spanish 1410, 1420, 2310, 2320, 3308; 3301 or 3302 or 3305 or 3306; 3370 or 3371; 4340 and Linguistics 4307.

**Special Education**

(21 hours) ..... Special Education 2381, 3338, 3381, 4344, 4345, 4374, and 4381.

**Speech Communication**

(30 hours) ..... Speech Communication 1310, 1315, 2325, 2330, 2338, 3315, 3327, 3333, 4310, and 4320.

**Theatre**

(24 hours) ..... Theatre 1358, 1364, 2338, 3320 or 3321, 3344 or 3346 or 4345, 4357, 4364, and 4365.

**Option III (broad teaching field, grades 6-12)****Art and Design**

(75 hours) ..... ArtF 1301, ArtF 1302, ArtF 1303, ArtF 1304, ArtH 2301, ArtH 2302, ArtH 3301, ArtS 2311, ArtS 2321, ArtS 2331, ArtS 2341, ArtS 2351, ArtS 3362 (prerequisite TECH 1450), ArtS 2371, ArtS 2381, ArtS 2391, ArtT 2371, ArtT 3373, ArtT 3374, ArtT 4375. Of the remaining four Art Electives, one must be selected from the following studio areas: Ceramics II 3312, Drawing II 3322 or Drawing III 3323, Fibers II 3332, or Fibers IV 3334, Metals II 3342, Painting II 3352, Fine Art Photography 4365, Printmaking II 3372, Sculpture II 3382, or Watercolor II 3392. Course selection for the remaining three Art (C, H, S, T) Electives must be discussed in detail with your Art Education Advisor and the department chair in light of your educational and career goals.

**Industrial Technology**

(50 hours) ..... Technology 1320, 1330, 1413, 1450, 2310, 2330, 2344, 2360, 2370, 3310, 3313, 4360, 4362, 4374, 4380, and 3 hours of advanced technology electives.

**Music**

(vocal, 62 hours)

(instrumental

keyboard, 58 hours) ..... Music 1210, 1211, 1213, 1214, 2123, 2260, 2261, 2262, 2263, 2141 (vocal majors only; must be repeated), 2203, 2204, 8 semester hours of private lessons (1103 through 1206 and 2105 through 2208) and an additional 2 hours in the secondary performance area for instrumental majors, 4 hours in the secondary performance area for vocal and keyboard majors only, 4 hours of ensemble (Bands: 1111-2111; Choirs: 1113-2113; Jazz Bands 1117-2117; Chamber Music or Orchestra: 1121-2121), 3 hours of instrumental techniques classes (1111-2113), for instrumental majors only, 3315, 3316, 3207, 3217 or 3227, 3220 (vocal majors only), 3241, 3253, 3269, 6 hours private lessons in primary performance area (3107 through 3210 and 4109 through 4211), 3 hours advanced ensemble (Bands: 3111-4111; Choirs: 3113-4113; Chamber Music and Orchestra: 3121-4121; Jazz Band 3117-4117), 6 hours instrumental techniques classes (3115-4117) for instrumental majors only.

**All-Level** (grades Pre-Kindergarten through grade 12)

## **Art and Design**

(75 hours) ..... ArtF 1301, ArtF 1302, ArtF 1303, ArtF 1304, ArtH 2301, ArtH 2302, ArtH 3301, ArtS 2311, ArtS 2321, ArtS 2331, ArtS 2341, ArtS 2351, ArtS 3362 (prerequisite TECH 1450), ArtS 2371, ArtS 2381, ArtS 2391, ArtT 2371, ArtT 3372, ArtT 3373, ArtT 3374, ArtT 4375. Of the remaining three Art Electives, one must be selected from the following studio areas: Ceramics II 3312, Drawing II 3322 or Drawing III 3323, Fibers II 3332, or Fibers IV 3334, Metals II 3342, Painting II 3352, Fine Art Photography 4365, Printmaking II 3372, Sculpture II 3382, or Watercolor II 3392. Course selection for the remaining three Art (C, H, S, T) Electives must be discussed in detail with your Art Education Advisor and the department chair in light of your educational and career goals.

## **Music**

(vocal, 68 hours)

(instrumental

keyboard, 70 hours)

(keyboard, 65 hours)..... Music 1210, 1211, 1212, 1213, 1214, 2123, 2260, 2261, 2262, 2263, 2141 (vocal majors only; must be repeated), 2203, 2204, 8 semester hours of private lessons (1103 through 1206 and 2105 through 2208) and an additional 2 hours in the secondary performance area for instrumental majors, 4 hours in the secondary performance area for vocal majors only, 4 hours of ensemble (Bands: 1111-2111; Choirs: 1113-2113; Jazz Bands 1117-2117; Chamber Music or Orchestra: 1121-2121), 2 hours of instrumental techniques classes (1111-2113) for instrumental majors only, 3315, 3316, 3207, 3217 or 3227, 3220 (vocal majors only), 3340, 3241, 3253, 3269, 6 hours private lessons in primary performance area (3107 through 3210 and 4109 through 4211), 3 hours advanced ensemble (Bands: 3111-4111; Choirs: 3113-4113; Chamber Music and Orchestra: 3121-4121; Jazz Band 3117-4117), 6 hours instrumental techniques classes (3115-4117) for instrumental majors only.

## **Physical Education**

(38 hours) ..... Physical Education 1310, 2356, 2365, 3317, 3320, 3322, 3324, 3329, 4323, 4351, and five (5) hours PE major/minor activities and 3 hours Physical Education elective theory. The teaching field and prefix are still called physical education even though the degree will be a Bachelor of Exercise and Sports Science. Must have a second teaching field.

## **Speech**

### **Communication**

### **and Theatre**

(49 hours) ..... Speech Communication 1315, 2111, 2323 or 2325, 3323, 2330, 3315, 2338, 4310, Theatre 1354, 1358, 1364, 1370, 3320, 3344, 4364, 4365 and either Speech Communication 4320 or Theatre 4320.

## **Agricultural Science and Home Economics Certificates**

### **Agricultural Science**

(54 hours) ..... Agriculture 2373, 2374, 2390, 3310, 3353 or 4361, 4343, 2383, 3317 or 3318, 1445, 4325, 3345, 2313 or 2379, 3305 or 3306, 3426, 4185 (3 times), Agriculture Service and Development 4212, and 4311 and CATE 3313D.

### **Vocational Home**

### **Economics**

(54 hours) ..... Clothing and Textiles: FCS 1332, 2331 or 2334; Food and Nutrition: FCS 1360, 2360, 2367 or 3362, 3360; Home Management, Family Economics and Consumer Education: FCS 1341, 1347, 3341; Housing: FCS 1321, 3329; Human Development and the Family: FCS 1351, 2351, 3355; FCS Electives: 6 hours, Occupational: AG 4343, CATE 3313D.

## **Directed (Student) Teaching**

Directed Teaching should be completed during the last long semester prior to graduation. Before being permitted to begin student teaching, students must meet all requirements listed above under Student Teaching. The following professional sequence and reading courses must be completed prior to the beginning of student teaching: elementary - \*Core 1, field-based 1 and 2; secondary - CI 3310, 3325, CI 4332, CI 4343, and RDG 3323; all-level - CI 3310, 3325, CI 4332, CI 4343, and RDG 3323.

Student Teaching Roundups are held one long semester prior to the student teaching semester (early September for Spring and late January for Fall) and are mandatory for all students who plan to student teach. Students are also given information at the roundups about upcoming requirements prior to student teaching and the student teaching course(s) for which they will register.

Student teachers also have the opportunity to do half of their student teaching abroad. At the present time, international student teaching programs are offered in England, Mexico and New Zealand. Specific details are given to students at Roundups or can be obtained by making an appointment with the Associate Dean-Director of Teacher Education and Field Experiences in the School of Education Academic Advising Center.

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\*Field hours are required in Field-Based 1 and 2 for elementary and in the Middle School Block (CI 3325, 4332 and 4343) and RDG 3323 or CI 3325 and the High School Block (CI 4341, 4343 and RDG 3323) for secondary/all-level students.

## **Courses in Education (ED)**

**4380 Directed Teaching.** (See 4680). For All-level students and Post-BA Interns.

**4381 Directed Teaching.** (See 4681). For All-level students and Post-BA Interns.

**4384 Directed Teaching (Secondary). (7 1/2-0)** Prerequisite: Consent of Director of Field Experiences.

**4387 Directed Teaching (Kindergarten). (3-3)** Experiences providing opportunities for observation, participation and directed teaching for students in kindergarten curriculum on the senior level. A minimum of one conference hour per week is required.

**4680 Directed Teaching (Elementary). (1-6)** In this capstone course, students will integrate and apply knowledge from their entire program while teaching in collaboration with experienced teachers in the public schools with university guidance and supervision. Students will demonstrate exit-level proficiency in state-adopted and SWTSU proficiencies for teachers. Prerequisites: CI 4350, CI 4355, SPED 4344. Meet department GPA standard.

**4681 Directed Teaching (Secondary). (1-6)** Experiences providing opportunities for observation, participation and directed teaching for students enrolled in the curriculum for high school teachers. A minimum of one conference hour per week is required. May be taken for three semester hours credit (4381) for all-level certification.

## **Post-Graduate Certificate Requirement**

Persons who hold at least a bachelor's degree and who are seeking either initial or additional Texas teaching certificates will follow the procedures listed below:

- A. Instructions for Post-Graduates from a Texas College or University and Non-Certified Out-of-State Applicants
  - 1. Apply for admission through the Office of Graduate Studies and Research.
  - 2. Apply to the Certification Officer in the School of Education Academic Advising Center for a deficiency plan.
  - 3. Successfully complete the deficiencies.
  - 4. Apply for certification in the School of Education Academic Advising Center.
- B. Certified Out-of-State Applicants
  - 1. Persons holding a valid teacher certificate from another state must:
    - a. Apply to the Division of Teacher Certification of the Texas Education Agency, 1701 N. Congress Avenue, Austin, Texas 78701-1494, for either a certificate or a deficiency plan.
    - b. Obtain the necessary application form (TCER-009) from the University Certification Officer.

Note: A processing fee will be assessed at the time of application.

## **Southwest Texas Center for Educational Partnerships (SWT-CEP).**

The SWT-CEP serves in an advisory capacity to the Teacher Education Program at Southwest Texas State University. The Center includes representatives from over 35 school districts, the teaching profession, teacher education faculty, Regional Educational Service Centers, the State Board for Educator Certification, etc. The mission of SWT-CEP is to enhance and support quality education through partnerships among Southwest Texas State University, schools and communities.

## **Educational Placement**

Job placement assistance for students seeking employment in elementary and secondary schools is available in the School of Education Academic Advising Center. The office provides a placement file service, posts notices of job openings, and arranges on-campus interviews for students with representatives from school districts. Employment information is available upon request concerning education-related job opportunities in other states and overseas.

## Department of Curriculum and Instruction

Chair and Professor-Dolezal. Professors-Caverly, Dorsey, Fite, Gillis, Hammond, Hatcher, Huling, Nicosia, Thomas, Webber, Wheeler, Worley. Associate Professors-Dunn, Hall, Joseph, Mandeville, Menchaca, Newberry, Rodriguez, Scheuermann, Werner. Assistant Professors-Battle, Byrum, Humphrey, Leavell, McDonald, Peterson, Ramos, Resta, Stephens, Witham. Instructors-Burkhardt, McCall, McKool, Tucker. Lecturers-Farr, Hickman, Nicholson, Pape, Wolaver.

The Department of Curriculum and Instruction offers programs to prepare elementary and secondary teachers. These programs lead to teacher certification in Texas.

Students who wish to teach elementary school pursue the Bachelor of Science with a major in interdisciplinary studies with four categories of study: (1) general education, (2) teaching specialty curricula designed for public school instruction, (3) a professional studies curriculum designed for specific roles in teaching, and (4) electives adequate to complete the number of hours required for graduation. Provisions within the teaching specialty curricula allow the student to select an academic specialization, teaching field, or delivery system.

Students who seek secondary certification (grades 6-12) follow the curriculum outlined by their major department. These students take professional development courses offered by the Department of Curriculum and Instruction.

Graduates of the teacher education program enter careers as school teachers or remediation specialists. They work at public and private schools, learning centers, residential programs, regional education service centers, and state and federal agencies.

Students interested in learning more about teacher education should call 245-2157 or visit the department in the Education Building, room 3038.

## Curriculum for Elementary Teachers

### **Bachelor of Science Major in Interdisciplinary Studies (Minimum required: 130 hours with teaching certification)**

Students seeking this degree should consult with advisers in the School of Education Academic Advising Center (Education Building 2026) prior to each registration for detailed information regarding specific requirements. An academic plan should be developed so that ED 4680 (Student Teaching), and no more than one other course are taken during the same semester.

The following schedule represents a typical year-by-year progression toward the degree; however, students should develop their plans following semesterly consultations with staff in the Advising Center.

#### **Freshman Year                      Hours**

Computer Science 1308.....	3
English 1310, 1320.....	6
General Studies 1100.....	1
Geography 1310 .....	3
History 1310, 1320 .....	6
Mathematics 1315 or 1319 .....	3
Phy. Fitness Perspective (two courses) .....	2
Physics 1310, 1320, 1110.....	7
Speech Communication 1310 .....	3

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#### **Sophomore Year                      Hours**

2 courses from ARTT 3370, Music 1311, or Theatre 1370 .....	6
Biology 1310 .....	3
Literary Perspective (English 2300+) .....	3
Mathematics 2301, 2311.....	6
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Specialization/Teaching Field.....	6

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#### **Junior Year                              Hours**

Core 1 (CI 3315, 3322, Special Education 3381) .....	9
Curriculum and Instruction 4350.....	3
Field-based Block I (CI 4355, RDG 2310, RDG 2321).....	9
General Science 3310, 3320 .....	6

Physical Education or Health	
Education 3321 .....	3
Specialization/Teaching Field.....	6

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<b>Senior Year</b>	<b>Hours</b>
Art, Dance, Music or Theatre 3313 .....	3
Education 4680 (Student Teaching) .....	6
Field-based Block II (CI 3335, RDG 3315, 3320) .....	9
International Perspective .....	3
Specialization/Teaching Field.....	6



#### **A. Specialization/Teaching Field**

1. Art: ArtF 1301, ArtF 1302, ArtF 1303, select one from the following: (ArtS 2321, ArtS 2351, ArtS 2371, ArtS 2391, or ArtS 3362 (prerequisite Tech 1450), select one from the following: (ArtS 2311, ArtS 2331, ArtS 2341, ArtS 2381), ArtT 3371, ArtT 3373 ( ArtT 3374 or ArtT 4375), [ArtT 3372 (prerequisite ArtT 2371) needs to be taken as part of the Elementary Education curriculum] (24 semester hours).
2. Bilingual Education: Curriculum and Instruction 3332, 4360, 4361, 4362, Reading 4320, select one from the following: Spanish 3304, 3320, or Sociology 3327 (18 semester hours).
3. Early Childhood: Early Childhood 2310, 3330, 4310, 4350, 4352, select one from the following: Family and Consumer Sciences 3351, 3353, 4352, or Physical Education 2365 (18 semester hours).
4. English: English 2330, 2340, 4310 or 3319, 3385 or 3386, 3311 or 3315, plus one course in advanced literature not listed previously (18 semester hours).
5. French: French 1410, 1420, 2310, 2320, 3304, 4340, 3370 (or 3301 or 3302), Linguistics 4307 (26 semester hours).
6. Geography: Geography 1309, 1310, 2410, 3309, 3329, 4340 (18-19 semester hours).
7. German: German 1410, 1420, 2310, 2320, 4340, 3310, 3301 (or 3302 or 3370), Linguistics 4307 (26 semester hours).
8. Health Education: Health Education 1310, 2354, 2338, 3348, 3342 or 3375, 3360 (18 semester hours).
9. History: History 2310, 2320 (or 2311 or 2312), 3372, two advanced courses from non-American history and one advanced course from U.S. history. For lists of specific course options in these two areas, please refer to the Department of History section (18 semester hours).
10. Mathematics: Mathematics 2321, 2331, 3315, 4302, 4311, Computer Science 1318 (or 2488). (18-19 semester hours).
11. Music: Music 1311, 2123, 3255, 3340, 3269, two semester hours of voice or voice class, two semester hours of piano or piano class, three semester hours of ensemble class (18 semester hours).
12. Physical Education: Physical Education 1310, 2365, 3320, 3324, 3329, 4323 (18 semester hours).
13. Reading: Reading 2310, 2321, 3312, 3315, 3320, 4335 (18 semester hours).
14. Science: Biology 1420, 4402, 4403, 4305, Chemistry 4336, 4337, select one from the following: Biology 4322, 3406, Physics 1340/1140, 1350/1140, Geology 1410, 1420 (24-25 hours).
15. Spanish: Spanish 1410, 1420, 2310, 2320, 3304 or 4340, plus one from the following: 3301, 3302, 3305, 3306, 3370, 3371, and Linguistics 4307 (23 semester hours).
16. Special Education: Special Education 2381, 3338, 3381, 4344, 4345, 4374, 4381 (21 semester hours).
17. Speech Communication: Speech Communication 1315, 1340, 2323, 3315, 4310, plus one from the following: 3318B, 3318C, 3318E, 3327 (18 semester hours).
18. Theatre: Theatre 1264, 2111, 1358 or 1364, 1370, 3315, 4310, 4370 (18 semester hours).

#### **B. Interdisciplinary Major**

In addition to the 18-24 semester hours of the student's teaching field, 12 semester hours of Reading, Mathematics 2301 and 2311, Biology 1310, and General Science 3310 and 3320 are required.

### **The Secondary Education Program**

Students who wish to be certified to teach at the secondary school level (grades 6-12) will follow the curriculum specified by their major department and will apply to the appropriate department or advising center for their degree outline. The Department of Curriculum and Instruction provides the following professional education sequence:

Middle School Sequence: CI 3310, Middle School Block, RDG 3323, and ED 4681 (Student Teaching)

High School Sequence: CI 3310, CI 3325, High School Block, and ED 4681 (Student Teaching).

### **Courses in Curriculum and Instruction (CI)**

**3310 Public Education in America. (3-0)** A study of public schooling in America including the historical, legal, and political contexts. Students will examine educators, curriculum, learning processes, teaching, instructional materials, and assessment with a focus on middle schools and high schools. Current issues will be addressed. This course serves as an introduction to the secondary education program for potential teachers as well as a survey for non-majors. Prerequisite SWT GPA of 2.5.

(WI) **\*\*3315 Human Development and Learning Theory. (3-0)** Students will study human development and learning theories, including social and cultural factors that affect learning. Implications for classrooms and teaching will be discussed. Students will also examine education as a profession. Prerequisite: Meet department GPA standards.

**\*\*3322 Elementary Curriculum and Teaching Materials. (3-0)** This course focuses on the application of learning theory in an instructional setting. Various teaching strategies and instructional methods are examined in relation to classroom activities. Use of classroom planning, organizing and utilization of materials is emphasized. Prerequisites: Department GPA standards, CI 3315, SPED 2325, SPED 3381, or concurrent enrollment.

**\*\*3325 Adolescent Growth and Development. (3-0)** The growth and development of the adolescent will provide prospective secondary teachers with an understanding of the students they will teach. Biological and cognitive processes will be studied, as well as the role of the family, peer importance, and cultural comparisons. Prerequisite: SWT GPA of 2.5.

**3332 Introduction to Bilingual Education. (3-0)** The rationale, history, and philosophy of bilingual education, planning for the provision of the cultural, motivational, and self-concept influences that mediate the learning process of the limited English proficiency pupil in the elementary classroom. Prerequisite: SWT GPA of 2.5.

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\*\* Fifteen clock hours of field experience required.

**3335 Humanities in the Integrated Elementary Curriculum. (3-0)** Course provides the knowledge and skills needed to use the major concepts and processes from the fine arts and the social sciences to develop appropriate curriculum for the elementary school student. Assessment of student needs relevant to the fine arts and social studies curriculum, planning lessons and integrated units, effective instructional delivery, and evaluation of student progress and preservice teacher effectiveness are included in this field-based course. Prerequisites: CI 3322, RDG 2310, RDG 2321. Admission to teacher education. Meet department GPA standards.

**4311 The Professional Teacher. (3-0)** In this course students study the principles of elementary schooling, the structure of state and local school systems, the legal and ethical roles of teachers, strategies and resources for continued professional development, and review the process of curriculum development. Students will develop a technology-rich unit of instruction to meet the needs of diverse elementary student populations and implement it in a field-based setting. Prerequisites: CI 4350, CI 4355, SPED 4344. Meet department GPA standards.

**4325 Student Management in the Elementary Schools. (3-0)** The course will include classroom discipline and pupil control techniques. It will also develop methods of educational diagnosis, testing, and evaluation which may be used in effective student learning activities. Prerequisite: SWT GPA of 2.5.

**4332 Secondary Teaching: Curriculum and Technology. (3-2)** Students will understand principles of and influences on curriculum development. Emphases include: design of outcome-oriented instruction, analyses of state curriculum standards, use of human and community resources, and appreciation of human and cultural diversity. Students will design instruction that promotes self-directed learning, cooperative learning, problem solving, higher-order thinking, and the use of instructional media and technology. Laboratory experiences are required. Prerequisites: 58 semester hours and a GPA of 2.5.

**4341 Classroom Management and Student Evaluation. (3-0)** Students will develop skills in measurement and evaluation of achievement. Classroom management principles and strategies will be emphasized in relationship to the teaching-learning process. Students will develop the interpersonal skills necessary to be a successful teacher. Legal, ethical, and administrative requirements and building home-school relations are also included. Prerequisites: Admission to teacher education and a GPA of 2.5.

**4343 Instructional Strategies for the Secondary Teacher. (3-0)** Students will learn and develop teaching strategies appropriate for secondary teachers. Instructional planning, construction of instructional objectives and lesson presentation will be taught. Strategies for teaching special students and teaching in multicultural settings will be discussed. Prerequisites: Admission to teacher education and a GPA of 2.5.

**4350 Mathematics in the Integrated Elementary Curriculum. (3-0)** Course provides an in-depth study of the mathematics content and methodology derived from principles of learning and research. Primary focus will be on the development of mathematics understanding and relevant applications rather than manipulation of numbers without context, purpose, or concepts. Students will develop the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and develop techniques for evaluating pupil progress within a field-based environment. Prerequisites: CI 3335, RDG 3315, RDG 3320. Meet department GPA standards.

**4355 Science in the Integrated Elementary Curriculum. (3-0)** Course provides an in-depth study of the use of both the content and processes of science in producing integrated, developmentally appropriate elementary science curriculum. Students learn to use the major concepts and themes of science to organize activity-driven, process-rich, interdisciplinary instructional units. The management of materials, students, and instructional time during inquiry and other problem-solving activities, and the assessment of student progress are also stressed in this field-based class. Prerequisites: CI 3335, RDG 3315, RDG 3320. Meet department GPA standards.

**4360 Teaching the Bilingual Content Areas. (3-0)** Content, methods and materials of elementary bilingual classroom instruction. Teaching the bilingual curriculum and providing strategies and materials for meeting the needs of the Limited English Proficient (LEP) pupil.

**4361 Psychological Foundations of Bilingual Education. (3-0)** The study of the educational foundation and development of bilingual education. The evaluation of achievement and learning ability of the Limited English Proficient (LEP) pupil will be examined. The psychological development of the LEP pupil and relationship of cultural values, socialization practices and learning styles will be analyzed.

**4362 The Elementary Bilingual Content Areas. (3-0)** A study of the mathematics, science, social studies, and language arts curriculum of the bilingual elementary classroom. Prerequisite: SWT GPA of 2.5.

**4378 Problems in Education. (3-0)** Individual problems related to areas of selected study for the undergraduate student, designed to meet individual differences for the purpose of certification. A letter following the course title on the permanent record will indicate the area of emphasis according to this code: (a) Occupational Education, (i) Elementary, (j) Secondary, (k) Early Childhood, (l) Bilingual, and (m) English as Second Language. For undergraduates only. Prerequisite: SWT GPA of 2.5.

### Courses in Early Childhood Education (ECE)

**2310 The Young Child in the Family: An Introduction. (3-0)** The study of the young child in the family structure, with emphasis on family-life patterns, available community resource, historical perspective and related current issues. Prerequisite: SWT GPA of 2.5.

(WI) **3330 Early Childhood Development. (3-0)** Basic principles of physical, cognitive, language, social and emotional development. Prerequisite: SWT GPA of 2.5.

**4310 Seminar for Teachers of Young Children. (3-3)** Directed Field Experiences in observation, participation, problem-solving, assessing and teaching in programs for young children. A minimum of one conference hour per week is required in addition to assignment (three hours weekly) in an approved preschool program. Prerequisite: SWT GPA of 2.5.

**4350 Curriculum for the Pre-School Child. (3-0)** Study of the educational pre-school program, its methods, curriculum, and materials appropriate for three-, four-, and five-year-old children. Prerequisite: SWT GPA of 2.5.

**4352 Kindergarten Curriculum. (3-0)** Study of the kindergarten curriculum. Emphasizes program development and developmentally appropriate teaching strategies, materials, and activities. Prerequisite: SWT GPA of 2.5.

**4380 Independent Study in Early Childhood. (3-0)** In-depth study of selected topics of current need or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Prerequisite: SWT GPA of 2.5.

### Courses in Reading (RDG)

**1300 Reading Improvement. (3-2)** A content-based learning strategies course for students who require compensatory instruction in vocabulary, reading comprehension, critical reading, study skills, and test-taking skills. Required for students who fail to make passing scores on the TASP reading subtest. Concurrent enrollment in specific sections of appropriate general studies courses is required. Credit earned for this course will not count toward any baccalaureate degree offered by the University.

**2310 Introduction to the Nature of Reading and Readers. (3-0)** Course provides background knowledge necessary for the teacher of reading at any level. Topics include: nature of the reader, symbolic language representation, models of the reading process, writing as a process, and research that informs practice. Prerequisites: Department GPA standards, CI 3315, SPED 2325, SPED 3381, or concurrent enrollment.

**2321 Methods and Materials for Developmental Reading. (3-0)** Course provides information about current reading methods, materials, and strategies for teaching developmental reading at all levels with an emphasis on the elementary grades. Course topics include the major approaches and materials for teaching reading; teaching word recognition/analysis, comprehension, and vocabulary strategies; using literature in the reading/writing program; and implementing instructional strategies with both novice readers and expert readers at the preschool elementary, and intermediate-secondary levels. Prerequisites: Department GPA standards, CI 3315, SPED 2325, SPED 3381, or concurrent enrollment.

**3310 Diagnostic-Prescriptive Reading Instruction. (3-0)** Course provides information about and strategies for classroom assessment and reading instruction for students who are not making average progress in reading. Course topics include gathering and using assessment data, corrective teaching strategies, teacher/program effectiveness research, groups with special needs, and legal requirements related to special populations. Prerequisite: SWT GPA of 2.5.

**3312 Reading and Writing Instruction for Children with Special Needs. (3-0)** Course focuses on classroom reading instruction for children not making average progress in reading and writing. Course topics include: the nature and identification of reading and writing difficulties, including dyslexia; strategies for modification of instruction for children with special needs; diagnostic teaching, teacher/program effectiveness research, and legal requirements related to special populations. Prerequisites: RDG 2310, RDG 2321 and SWT GPA of 2.5.

**3315 Assessing Reading and Writing. (3-0)** Students will learn about the characteristics, uses, and limitations of various types of assessment tools; laws and policies related to assessment; and apply what they have learned about assessment and assessment-based planning and teaching in the elementary language arts classroom. This is a field-based class. Prerequisites: CI 3322, RDG 2310, RDG 2321. Admission to Teacher Education. Meet department GPA standards.

(WI) **3320 Integrating Reading and Writing. (3-0)** Students study the integrative approach to reading and writing in the elementary school curriculum. During a field experience, students apply the theories learned by tutoring children and teaching lessons to whole and small groups. Prerequisites: CI 3322, RDG 2310, , RDG 2321. Admission to Teacher Education. Meet department GPA standards.

**3323 Teaching Reading in the Content Areas. (3-0)** Course provides information about instruction in the secondary content areas with an emphasis on the effective use of textbooks and other content related print materials. Course topics include: nature and purpose of content reading instruction, text selection, comprehension, study skills, assessment, and meeting individual needs in content reading. Prerequisites: Admission to Teacher Education and a minimum SWT GPA of 2.5.

**3324 Teaching Reading in the Secondary School. (3-0)** This course deals with developmental and corrective reading in the upper elementary, middle school, and high school classroom. Some topics to be included are extension of fundamental reading skills, classroom assessment and correction of reading problems, study skills, reading and the content areas, and selection of reading materials. Prerequisite: SWT GPA of 2.5.

**4310 Content Reading. (3-3)** Course provides information about instruction in the elementary content areas with emphasis on the effective use of textbooks and tradebooks. Course topics include: nature and purpose of content instruction and reading, text selection, use of tradebooks, comprehension, inquiry learning and problem solving, and assessment and meeting individual needs in content reading. Prerequisite: SWT GPA of 2.5.

**4320 Teaching English to Speakers of Other Languages. (3-0)** **An introduction to a study of the relationships between the sociolinguistic background and acquisition of English as a second language by speakers of other languages. Study of the reading content basis for the effective teaching of reading to speakers of other languages. Prerequisite: SWT GPA of 2.5.**

**4335 Clinical Practicum. (3-0)** This is the final course in the concentration. Course content has to do with diagnosis and remediation of reading disabilities; the main emphasis is on student development of prescribed competencies through observation and participation in the Reading Center for a minimum of five hours per week. Prerequisite: SWT GPA 2.5.

**4380 Independent Study in Reading Instruction. (3-0)** Analysis and interpretation of selected topics of special interest in reading and language arts instruction. Topics and instructors will vary from semester to semester. Prerequisite: SWT GPA of 2.5.

## **Courses in Special Education (SPED)**

**2325 Developmental Patterns of the Disabled. (3-0)** The course provides for in-depth study of language, cognitive, psychosocial, and motor development from infancy to adulthood in the disabled population. Special emphasis is placed on the relationship between these developmental problems and the learning process. Prerequisite: Meet departmental GPA standards.

**2381 Assessing Students with Special Needs. (3-0)** This course will familiarize students with standardized testing concepts as they relate to special education placement. Emphasis will be placed on the value and importance of formal and informal assessment the identification of intelligence, academic achievement, social/emotional/motor development, and cognitive functioning as well as the implications of these results for remediation. A lab will accompany this course where students will practice assessment and remediation procedures. Prerequisite: A minimum SWT GPA of 2.5.

**3338 Exceptional Learner in Secondary Schools. (3-0)** This course will examine issues and practices relevant to adolescents and young adults with disabilities. Topics to be addressed include adolescent development, instructional arrangements, academic and nonacademic curricula, instructional strategies, and societal, educational, and legal issues relevant to adolescents with disabilities. Prerequisites: Admission to Teacher Education and a minimum SWT GPA of 2.5.

**3381 Survey of Exceptionality. (3-0)** This course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of state and federal laws as they relate to various populations; and identification of resources pertaining to the education of exceptional students. Prerequisite: Meet departmental GPA standards.

**4310 Selected Topics in Special Education. (3-0)** In-depth study of selected topics of current interest in special education. Work done on an independent study basis with faculty member and available only with permission of department. Prerequisite: SWT GPA of 2.5.

**4344 Instructional Modifications for Special Populations. (3-0)** Course provides information about curricular and instructional modifications for special populations. The role of classroom management, legal constraints on curriculum for these populations and issues that affect curriculum decisions for these populations will be addressed. Appropriate curricula for special populations will be described, including academic tool subjects and non-academic curricula. Specific methods for individualizing instruction under a variety of classroom conditions will be presented. Course content will be applied in field-based setting. Prerequisites: CI 3335, RDG 3320, RDG 3315. Meet department GPA standards.

**4345 Integrated Approaches for Special Populations. (3-0)** Course includes consultation skills for teachers, specific assessment strategies, intervention strategies, conferencing and counseling skills, and community resources. Emphasis will be placed on the special needs of students with very challenging behavior and the need for family involvement. Course content will be applied in a field-based setting. Prerequisites: CI 4350, CI 4355, SPED 4344. Meet department GPA standards.

**4374 Applied Behavioral Analysis in Special Education. (3-)** Examination of student behavior, techniques for maintaining or improving appropriate behavior, as well as techniques for decreasing inappropriate behavior. Emphasis will be placed on applied behavior in the classroom. Supervised clinical practice. Prerequisites: Admission to Teacher Education and a minimum SWT GPA of 2.5.

**4381 Teaching Students with Severe Disabilities. (3-0)** This course provides an overview of student characteristics and appropriate instructional techniques pertaining to individuals with severe disabilities. Special emphasis will be placed on functional assessment, curriculum development, instructional strategies, and behavior management for these special students. Issues regarding public school programming will be addressed. Prerequisites: Admission to Teacher Education and a minimum SWT GPA of 2.5.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Catalog.**

## Department of Educational Administration and Psychological Services

*Chair and Professor-McCullough. Professors-Beck, Jorgenson, Kurtz, Seifert, Willoughby. Associate Professors-Boone, Carns, Carns, Gordon, Jones, Lyman, Payne, Scholwinski, Scribner, Simpson. Assistant Professors-Dochen, Garcia, Homeyer, Kutcher, Reese, Sellers. Lecturer-Hodges.*

The Department of Educational Administration and Psychological Services is primarily a graduate department, offering programs in professional counseling, adult and developmental education, educational administration, and school psychology. While the department offers no undergraduate degrees, it does provide courses that support other programs offered by the university. Students interested in learning more about these courses should call the department at (512) 245-2575.

### Courses in Educational Administration and Psychological Services (EDP)

**1350 Effective Learning. (3-0)** A study of the acquisition of procedural knowledge through the application of human learning theory, cognitive behavior modifications, and developmental psychology. Generalization and transfer of this knowledge will be emphasized.

**3320 Introduction to Counseling and Psychotherapy. (3-0)** The course is designed for upper-division undergraduates who are considering entering a helping profession or who wish to know more about counseling before entering into graduate study. The course will offer an broad overview of counseling, counseling theories, and interpersonal communication skills that will facilitate a counseling relationship. This class will leave students with a greater knowledge of the field of counseling and psychotherapy, a greater understanding of the counseling professional, greater self-awareness, and improved listening and communication skills. A combination of lectures, discussions, films, presentations, and experiential exercises will be employed to reach these goals.

**\*4378 Problems in Education. (3-0)** Individual problems related to areas of selected study of the undergraduate student, designed to meet individual differences for the purpose of certification. A letter following the course title on the permanent record will indicate the area of emphasis according to this code: (c) Counseling. For undergraduates only.

**For course descriptions, and further information about available graduate offering, please consult the Graduate Catalog.**

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\* May be repeated for credit.

## Department of Health, Physical Education and Recreation

*Chair and Professor-Burkhardt. Professors-Furney, Hays, Johnson, Murray, Paese, Patton. Associate Professors-Hoffmann, James, Schmidt, Stedman, Wiley. Assistant Professors-Alden, Gonzalez, Gustafson, Lord, Rutledge, Vaughan, Walker. Instructors-Barrett, Brice, Chism, DeBesse, Earl, Gish, Hood, Jarvis, Kathcart, Kinlund, Levermann, Lewis, Moore, O'Kelley, Smith, Spencer. Lecturers-Angell, Baker, Jackson, Marion Johnson, Miller, Moreau, Robarts, Stone.*

The Department of Health, Physical Education and Recreation offers the physical fitness and wellness courses required by SWT's general studies program to fulfill the Physical Fitness Perspective. The department also offers several undergraduate degrees and majors. These are described below. Students interested in learning more about any program in health, physical education, or recreation should call 512-245-2561 or visit the department in Jowers Center, Room 116.

**Recreational Administration.** The Bachelor of Science in Recreational Administration combines classroom learning and on-the-job training. Students study such areas as recreation programming, leadership, marketing, evaluation, Leisure Education, administration, and therapeutic recreation. Recreational administration graduates including those with an emphasis in therapeutic recreation, work in camps, nursing homes, community recreation centers, resorts, hospitals, rehabilitation facilities, fitness centers, and state and national parks.

**Dance.** A minor and teacher certification options are available in dance. SWT's dance program prepares professional performers and choreographers and certifies teachers for the public schools. Students explore several forms of dance and learn to use those forms in educational and community settings. The role of dance as an art form and a means of developing sound aesthetic values is paramount in the program. Graduates work in public schools, private schools, private studios and professional dance groups.

**Health and Wellness Promotion.** Health promotion is the process of improving people's understanding, attitudes, and conduct regarding individual and community health. Professionals in health promotion teach elementary or secondary school, or they work in community health agencies. SWT health promotion graduates work in education, emergency medical services, senior citizens programming, worksite wellness programs, Public Health Departments, Volunteer Health Organizations, and various other fields. The Bachelor of Health and Wellness Promotion (BHWP) provides a major in health and wellness promotion with secondary certification, or with elementary certification, or a non-teaching major with a specialization in community health promotion.

**Exercise and Sports Science.** The Bachelor of Exercise and Sports Science prepares students for careers as teachers in elementary and secondary schools and as athletic coaches. Students may choose either secondary or all-level (elementary and secondary) certification. Graduates with teacher certification work in elementary and secondary schools in Texas and elsewhere.

**Athletic Training.** Athletic training concerns all aspects of the athletes' health and safety. Athletic trainers help prevent injuries and provide immediate treatment and rehabilitation for injured athletes as directed by a team physician.

The Bachelor of Exercise and Sports Science (BESS) degree with a major in athletic training prepares students for the State of Texas Athletic Trainer's License and the National Athletic Trainer's Association's Certification. A secondary teaching certificate is also available. Although most graduates work in secondary schools, many trainers find positions with colleges and universities, professional sport teams, and sport medicine clinics.

Athletic training has a limited enrollment; therefore, students desiring to be considered for admittance should obtain an application from the department.

**Health and Fitness Management.** The health and fitness management program is available under the BESS degree and prepares students to direct fitness enterprises and wellness or health awareness programs in commercial, corporate, and institutional settings. Areas of study include fitness programming, stress management, smoking cessation, diet/nutrition, health-risk appraisal, and employee assistance. The curriculum also allows students to acquire the academic and clinical prerequisites needed to earn professional certification. Graduates work as fitness leaders, exercise testing technicians, cardiac rehabilitation specialists, or corrective therapists. Others are employed as salespersons, administrators, and managers of sports or fitness facilities.

## Physical Fitness Perspective Courses

The Physical Fitness Perspective is a two-course requirement. Students may satisfy this requirement by completing courses in two of the three categories of Physical Fitness & Wellness courses: Lifetime Fitness and Wellness (PFW 1101), Fitness or Leisure/Recreation.

(Veterans with a DD214 discharge form or those with similar active duty in the National Guard or Armed Forces of another nation may receive up to 4 hours of PE credit, thus fulfilling the Physical Fitness requirement. Students with documented disabilities should consult with the Health, Physical Education and Recreation Department for appropriate accommodations.)

Lifetime Fitness and Wellness Category

PFW 1101 Lifetime Fitness & Wellness

Fitness Category

PFW 1110-1149 and MU 1111C, 2111C, 3111C or 4111C (Marching Band)

Leisure/Recreation Category

PFW 1150-1225

## Courses in Physical Fitness/Wellness (PFW)

Lifetime Fitness and Wellness Category

1101 (PHED 1164) Lifetime Fitness & Wellness.

Fitness Category

1110A Beginning Aerobics.  
 1110B Intermediate Aerobics.  
 1110C Gymnastics.  
 1110D Balance & Tumbling.  
 1110E Beginning Jogging/Conditioning.  
 1110F Basic Fitness Activities.  
 1110G Beginning Weight Lifting.  
 1110H Physique Development.  
 1110I Beginning Cycling.  
 1110J Intermediate Cycling.  
 1110K Restricted Fitness Activities.  
 1114 Topics in Fitness Activities.  
 1125A Wrestling.  
 1130A Beginning Basketball.  
 1130B Soccer.  
 1135A Water Aerobics.  
 1135B Aquatic-Conditioning.  
 1140A Football Varsity.  
 1140B Basketball - Men's Varsity.  
 1140C Basketball - Women's Varsity.  
 1140D Track & Field - Men's Varsity.  
 1140E Track & Field - Women's Varsity.  
 1140F Volleyball - Varsity.  
 1140G Baseball - Men's Varsity.  
 1140H Softball - Women's Varsity.  
 1149 Strutters.

#### Leisure/Recreation Category

1150A Beginning Archery.  
 1150B Beginning Bowling.  
 1150C Intermediate Bowling.  
 1150D Beginning Golf.  
 1150E Intermediate Golf.  
 1150F Self Defense.  
 1150G Restricted Leisure Activities.  
 1150H Western Horsemanship.  
 1150I Hunt Seat Equitation.  
 1154 Topics in Leisure/Recreation Activities.  
 1155A Beginning Badminton.  
 1155B Beginning Fencing.  
 1155C Intermediate Fencing.  
 1155D Advanced Fencing.  
 1155E Fencing - Epee.  
 1155F Fencing - Sabre.  
 1155G Racquetball.  
 1155H Beginning Tennis.  
 1155I Intermediate Tennis.  
 1155J Judo.  
 1155K Beginning Karate.  
 1155L Intermediate Karate.  
 1155M Advanced Karate.  
 1160A Softball.  
 1160B Beginning Volleyball.  
 1160C Intermediate Volleyball.  
 1165A Golf - Men's Varsity.  
 1165B Tennis - Men's Varsity.  
 1165C Tennis - Women's Varsity.  
 1180A (DANC 1147) Beginning Jazz.  
 1180B (DANC 1148) Intermediate Jazz.  
 1180C (DANC 2147) Advanced Jazz.  
 1180D (DANC 1141) Beginning Ballet.



1180E	(DANC 1142) Intermediate Ballet.
1180F	(DANC 2141) Advanced Ballet.
1180G	(DANC 1145) Beginning Modern Dance.
1180H	(DANC 1146) Intermediate Modern Dance.
1180I	(DANC 2145) Advanced Modern Dance.
1180J	(DANC 1122, DANC 1128, & DANC 1133) Beginning Recreational Dance.
1190A	Canoeing.
1190B	Beginning Swimming.
1190C	Intermediate Swimming.
1190D	Skilled Swimming.
1190E	Lifeguard Training.
1200	Beginning Scuba Lab.
1200	Beginning Scuba Diving (Open Water I).
1201	Advanced Scuba Diving.
1204	Underwater Photography.
1225	Water Safety Instructor.

All PFW courses meet two clock hours per week for one semester hour credit unless otherwise designated.

## Bachelor of Exercise and Sports Science

### Major in Exercise and Sports Science

**(Minimum required: 128-134 semester hours)**

Freshman Year	Hours
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Natural science perspective .....	7
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Speech Communication 1310	3
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English 1310, 1320 .....	6
General Studies.....	1
History 1310, 1320 .....	6
Mathematics 1315, 1316, or 1319 .....	3
Phy. Fitness Perspective (two major/minor courses).....	2
Philosophy 1305 .....	3
Physical Education 1310 .....	3

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Sophomore Year	Hours
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Biology 2430 .....	4
Health Education 2338 or 2354 .....	3
Minor .....	6
English (Literature)*** .....	3
Political Science 2310, 2320 .....	6
Social Science Perspective*.....	3
Physical Education 2356, 3329 .....	6
Physical Education (PE major/minor activities) .....	3

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Junior Year	Hours
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Art, Dance, Music, or Theatre 3313 .....	3
Computer Science 1308.....	3
International Perspective .....	3
Physical Education 3317, 3320 .....	6
Physical Education elective theory** .....	3
Minor .....	3
Free electives .....	6

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<b>Senior Year</b>	<b>Hours</b>
Minor .....	9-15
Free electives .....	15
Physical Education 4323, 4351 .....	6
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	30-36

\*\*Not to include physical education activities (PE) or physical fitness perspective activities (PFW).

**Bachelor of Exercise and Sports Science**  
**Major in Exercise and Sports Science**  
 (Minimum required: 133-139 semester hours  
 with teaching certification)

Freshman Year	Hours
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35

Sophomore Year	Hours
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33

Junior Year	Hours
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33

Senior Year	Hours
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33

\*\*Not to include physical education activities (PE) or physical fitness perspective activities (PFW).

**Bachelor of Exercise and Sports Science**  
**Major in Exercise and Sports Science**  
**(Minimum required: 128-131 semester hours**  
**with teaching certification)**

Secondary Certification - Option II

<b>Freshman Year</b>	<b>Hours</b>
Natural science perspective .....	7
Speech Communication 1310 .....	3
English 130, 1320 .....	6
General Studies 1100 .....	1
History 1310, 1320 .....	6
International Perspective .....	3
Mathematics 1315, 1316, or 1319 .....	3
Physical Education 1310 .....	3
Phy. Fitness Perspective (PE major/ minor courses) .....	2
	<hr/> 34

<b>Sophomore Year</b>	<b>Hours</b>
Biology 2430 .....	4
English (Literature)** .....	3
Philosophy 1305 .....	3
Physical Education 2356 and 3 physical education major/ minor PE activities .....	6
Political Science 2310, 2320 .....	6
Second teaching field .....	9
Social science perspective .....	3
	<hr/> 34

\*Option II certification is in physical education and second teaching field.

\*\*Selected from English 2310, 2320, 2330, 2340, 2370, or 2380.

<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Curriculum and Instruction 3325 .....	3
Physical Education 3317, 3320, 3322, 3329, 4323 .....	15
Reading 3323 .....	3
Second teaching field .....	9
	<hr/> 33

<b>Senior Year</b>	<b>Hours</b>
Curriculum and Instruction 4341, 4343, 4332, Education 4681 .....	15
Physical Education 4351, three hours elective theory .....	6
Second teaching field .....	6
	<hr/> 27

**Bachelor of Exercise and Sports Science**  
**Major in Exercise and Sports Science**  
**(Minimum required: 135-136 semester hours**  
**with teaching certification)**

Secondary Dance Certification - Option II

This prepares the student specifically to teach dance within a physical education program, but not in other areas of physical education.\*

Freshman Year	Hours
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Speech Communication 1310.....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320.....	6
Mathematics 1315, 1316, or 1319 .....	3
Natural Science Perspective.....	7-8
Physical Education 1180a, 1181a, 1182a, and two elective dance activities**.....	5
Phy. Fitness and Wellness 1180H .....	1
Second teaching field.....	3

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35-36

Sophomore Year	Hours
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Biology 2430 .....	4
Dance 2208, 2209, 3332 .....	7
Literary Perspective .....	3
Philosophy 1305 .....	3
Physical Education 1181c .....	1
Phy. Fitness and Wellness 1180I .....	1
Political Science 2310, 2320 .....	6
Psychology 1300 or Sociology 1310 or 3300, or Economics 2320 .....	3
Second teaching field .....	6

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Junior Year	Hours
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Art, Dance, Music, or Theatre 3313 .....	3
Computer Science 1308.....	3
Curriculum and Instruction 3325, 4332.....	6
Dance 3330, 3365, 4368.....	9
English (three semester hour from 3316, 3322, 3328, 3329) .....	3
Reading 3323.....	3
Second teaching field.....	9

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Senior Year	Hours
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Dance 4366, 4367#.....	6
Dance 4369 (capstone course).....	3
Curriculum and Instruction 4341, 4343 and Education 4681##.....	12
Second teaching field.....	9

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\*Students in the dance program are expected to be active in the dance club, Orchestis, and to participate in dance concerts as dancers, choreographers, and technicians.  
 \*\*Students are expected to gain skills at the advanced level in modern dance plus skills in Ballet, Jazz, Folk, Social, Square and Tap and to enroll in a dance activity course each semester they are in school.  
 #May be repeated once for credit.  
 ##Consult academic adviser if you plan to teach in an additional teaching field.

## Bachelor of Exercise and Sports Science Major in Athletic Training (Minimum required: 128 semester hours)

### Notes:

1. Students are admitted into the degree program according to university policies as well as regulations set forth by the National Athletic Trainers Association and the Board of Athletic Trainers of the State of Texas. Students desiring admission must see the adviser to obtain an application.
2. Athletic training does not constitute a teaching field; therefore, if a teaching certification is desired, students must complete the exercise and sports science teaching certificate requirements. If a second teaching field is desired, students must complete an Option II teaching field.
3. A minimum of three years of clinical experience at the university level are required. Clinical experience constitutes attendance at scheduled seminars and working a minimum of 20 clock hours each week as a student trainer with approved supervision for a minimum of 600 hours each year.
4. Upon completion of the degree, the applicant will be qualified for the State of Texas Athletic Trainers License and the National Athletic Trainers Association Certification, pending approval by the two boards after successfully passing the tests administered by the two respective boards.

Freshman Year	Hours
Natural science perspective .....	7-8
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Physical Education 1296, 1310, 2156, 2356.....	9
Health Education 2354 .....	3
Phy. Fitness Perspective (major/minor courses) .....	2

<b>Sophomore Year</b>	<b>Hours</b>
Biology 2430 .....	4
Speech Communication 1310 .....	3
Literary Perspective .....	3
Math 1315, 1316, or 1319 .....	3
Physical Education 2296, 3326, 3296, 3346.....	10
Physical Education (P.E. major/minor activity) .....	1
Political Science 2310, 2320 .....	6
Psychology 1300 .....	3
	33

<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Family and Consumer Sciences 3362 .....	3
Health Education 2338 or 3348 .....	3
Physical Education 3296, 4296, 3317, 3320, 3336.....	13
Physical Education (P.E. major/minor activities) .....	2
Minor .....	5
Philosophy 1305 .....	3
	32

<b>Senior Year</b>	<b>Hours</b>
International perspective.....	3
Physical Education 3322, 3356, 4296, 4351.....	11
Minor .....	15
	29

**Bachelor of Exercise and Sports Science  
Major in Athletic Training  
(Minimum required: 129 semester hours  
with teaching certification)**

Secondary Certification - Option I

<b>Freshman Year</b>	<b>Hours</b>
Natural science perspective .....	7-8
Health Education 2354 .....	3
English 1310, 1320.....	6

<b>General Studies 1100</b>	<b>1</b>
History 1310, 1320 .....	6
Physical Education 1310, 1296, 2156, 2356.....	9
Phy. Fitness Perspective (PE major/ minor course).....	1

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<b>Sophomore Year</b>	<b>Hours</b>
Biology 2430 .....	4
Literary Perspective .....	3
Physical Education 2296, 3296, 3326, 3346 and 2 hours Physical Education (PE) major/ minor Activities .....	12
Political Science 2310, 2320 .....	6
Math 1315, 1316, or 1319 .....	3
Speech Communication 1310 .....	3

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<b>Junior Year</b> .....	<b>Hours</b>
Curriculum and Instruction 3325.....	3
International Perspective .....	3
Physical Education 3296, 3317, 3320, 3336, 4296.....	13
Philosophy 1305 .....	3
Health Education 2338 or 3348 .....	3
Physical Education major/ minor activities .....	2
Family and Consumer Sciences 3362 .....	3
Psychology 1300 .....	3

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<b>Senior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Curriculum and Instruction 4341, 4332, 4343.....	9
Education 4681.....	6
Physical Education 3322, 4296, 3356, 4351.....	11
Reading 3323.....	3

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**Bachelor of Exercise and Sports Science  
Major in Health and Fitness Management  
(Minimum required: 134 semester hours)**



<b>Freshman Year</b>	<b>Hours</b>
Chemistry 1310, 1430.....	7
Speech Communication 1310.....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320.....	6
Mathematics 1315 or 1316.....	3
Phy. Fitness Perspective (two courses).....	2
Philosophy 1305.....	3
Physical Fitness and Wellness 1110F, 1110G, 1155G.....	3

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<b>Sophomore Year</b>	<b>Hours</b>
Accounting 2361, 2362.....	6
Biology 2430.....	4
Literary Perspective.....	3
Health Education 2340.....	3
Physical Education 2356.....	3
Physical Education 1175a, or Physical Fitness and Wellness 1110E, 1176a, 1178a, 1179a4	
Political Science 2310, 2320.....	6
Recreational Administration 1320.....	3

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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313.....	3
Computer Information Systems 3370.....	3
Economics 2320.....	3
Business Law 2361.....	3
International Perspective.....	3
Management 3303.....	3
Physical Education activities.....	2
Physical Education 3317, 3320, 4351.....	9
Psychology 3350 or 3361.....	3
Elective theory (must be writing intensive).....	3

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Senior Year	Hours
Capstone course Physical Education 3323 .....	3
Health Education 4340 *, 4350 * .....	6
Health Education 4660 ** .....	6
Family and Consumer Sciences 3362 .....	3
Mass Communication 3343 .....	3
Marketing 3343 .....	3
Physical Education 4323 .....	3
Physical Education 4317 * .....	3
Sociology 3340 .....	3

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\*Prerequisite: Health Education 2340.

\*\*To be completed in wellness, health or fitness promotion program.

## Courses in Dance (DAN)

**2208 (DANC 1201) Dance Composition I. (1-3)** Basic principles of dance composition, solo choreography, in applied situations. Emphasis on skilled use of space, dynamics, and rhythm in building total artistic compositions. Practical experience, productions, and class will help students use basic music and dance forms as a basis for more complex choreography. Prerequisite: Beginning and intermediate modern dance or consent of instructor.

**2209 Dance Composition II. (1-3)** Utilizes improvisation as a creative dance technique in designing new movements for choreography. Stimulation, selection, use of improvisational dance materials with artistic discrimination. Current trends and techniques. Emphasis on designing original movement, maintaining aesthetic and artistic forms. May be repeated once for credit. New material will be covered each time taught.

**3313 Introduction to Fine Arts. (3-0)** A study of the interrelation of dance with art, music and Theatre. This course may not be repeated for credit by taking Art 3313, Music 3313 or Theatre 3313.

(WI) **3330 Materials for Rhythmical Activities. (3-1)** Theory of dance movement and skills, and the techniques of utilizing these skills in a practical situation. Exposure to wide areas of available resources and aids for the dance. Prerequisite: Beginning modern dance and recreational dance.

**3332 Demonstration Planning and Production. (3-0)** Develop skills required to write and produce dance-lecture demonstrations and dance concerts in the standard educational institutions as well as professionally. Organization of dance material for performance, lighting, make-up, prop construction and accompaniment for performance so that a smooth, cohesive program may be presented will be basic. Prerequisite: Junior standing.

**3365 Rhythmic Structure of Movement. (2-2)** The structural analysis of basic and complex dance movements, their inherent rhythmic configuration. Understanding of movement and its rhythmic structure and correction of movement errors. Practical experience in percussion accompaniment of these movements will be emphasized. Prerequisite: Beginning Modern Dance and Recreational Dance. Junior-senior level course.

**3366 Labanotation. (3-0)** To introduce the basic skills of Reading and Writing Labanotation. To develop adequate skills for notating short dances and for reading and reconstructing previously notated scores.

**\*3367 Dance Performance Workshop. (2-3)** Designed to give the advanced dance student experience in learning and performing varied styles of dance choreography. Established dance works and experimental works will be included in order to develop a professional level ability to learn, remember and perform a wide repertory of choreography. Prerequisite: Permission of instructor. May be repeated once for credit. New material will be covered each time taught.

(WI) **4366 Dance as an Art Form. (3-0)** Establishing the relationship of dance as a performing art to all the other art forms, to develop an understanding of the aesthetic theories in the arts, and the application of those theories to styles of dance found in the theatres and educational situations today.

**4367 Advanced Dance Composition: Theory and Practice. (3-0)** Students will choreograph, costume, light, and design original accompaniment for a group dance of substantial length, justifying artistic choices in an accompanying documented paper. The results of this course will be a senior dance concert. Prerequisite: Dance 2208 and 2209 or consent of instructor. May be repeated once for credit. New material will be covered each time taught.

(WI) **4368 History and Philosophy of Dance: Prehistoric to 1400 A.D. (3-0)** Exposure to a wide variety of literature in the area of dance, the arts and sciences which specifically address the development of dance as a part of human culture from preliterate societies through the Middle Ages.

(WI) **4369 History and Philosophy of Dance: 1400 A.D. to Present. (3-0)** Exposure to a wide variety of literature in the area of dance, the arts and sciences which specifically address the development of dance as a part of human culture including the Renaissance and Contemporary periods. (Capstone Course)

## Courses in Physical Education (PE)

Physical Education 1101 through 1192 are physical education major-minor courses. Non-major/minors may enroll only with authorization of the department.

**1101 Lifetime Fitness and Wellness**

**1170A Beginning Badminton**

**1171A Beginning Basketball**

**1172A Soccer**

**1175A Beginning Jogging/Conditioning**

**1176A Beginning Tennis**

**1177A Beginning Track and Field**

**1178A Beginning Volleyball**

**1179A Beginning Weight Training**

**1180A Beginning Ballet**

**1180B Intermediate Ballet**

**1180C Advanced Ballet**

**1181A Beginning Modern Dance**

**1181B Intermediate Modern Dance**

**1181C Advanced Modern Dance**

**182A Beginning Recreational Dance**

**1192A Beginning Balance and Tumbling**

**\*1296, 2296, 3296, 4296 Field Problems in Athletic Training. (3-20)** A study of the training room and its practices and procedures. A weekly three-hour seminar and a minimum of 20 hours per week of clinical experience. Prerequisite: Consent of instructor.

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\*Each course may be repeated for credit.

**1310 (PHED 1301) Foundations of Exercise and Sports Science. (3-0)** Introduction to the various areas of physical education, including brief historical backgrounds, professional opportunities, present status, past and present leaders, individual awareness of professional responsibilities; familiarization with current trends and issues, and professional literature.

**2156 Taping and Bandaging Athletic Injuries. (1-1)** The use of taping and bandage techniques used in the prevention and care of athletic injuries.

**2320 Analysis of Movement Skills. (3-0)** A study of fundamental and specialized movement skills for the purpose of developing skill technique knowledge and instruction. Special emphasis will be placed on the application of error detection and correction.

**2356 Prevention and Care of Athletic Injuries. (3-0)** Study of massage, care of sprains, bruises, strains, wounds, and problems of the athletic training room.

(WI) **2365 (PHED 1333) Rhythm and Movement Activities. (3-2)** Rhythmical movement exploration as a basis of developing basic movement skills, fitness, and dance activities. Right and left brain developmental theories will be explored in conjunction with creative/rhythmic movement discovery. Beginning modern dance or recreational dance recommended.

**3303 Assistant Instructor. (6-3)** Lecture, laboratory in teaching skills leading to assistant instructor's certification (National Association of Underwater Instructors). Prerequisite is PFW 1201.

**3304 Divemaster. (6-3)** Designed to train highly competent divers in skills to supervise and organize all phases of recreational diving. Prerequisite is PE 3303. An appropriate personal lifetime fitness and wellness component will be included.

**3305 Professional Diving Instructor. (6-3)** Leads to international certification by the National Association of Underwater Instructors as scuba instructors. Prerequisite: PE 3300 or consent of instructor. An appropriate personal lifetime fitness and wellness component will be included.

**3317 The Physiology of Exercise. (2-2)** Application of physiological principles to health and physical education with an analysis of the manner in which the body reacts to the exacting requirements of exercise. Prerequisite: BIO 2430 or the equivalent.

**3320 Kinesiology. (3-0)** Study of human movement from the point of view of the physical sciences. Experiences are provided in the analysis of motor performance through practical application of mechanical and anatomical laws.

**3321 Physical Activities for Elementary Students. (3-0)** Examination of traditional content matter and innovative techniques in physical education for elementary students. Course may not be counted in the health and wellness promotion or exercise and sports science major/minor programs.

**3322 Theory of Sports Techniques. (2-2)** The theory and curriculum underlying sports applied to practical secondary school situations; special emphasis upon aids, equipment, organization, control and management, and classification of participants instruction and practice in officiating. Prerequisite: Permission of the department.

(WI) **3323 Rationale and Principles of Movement Science. (3-0)** Social, political, economic, historical, and psychological backgrounds are studied as sources for forming basic principles in relation to physical well-being. Specific units of work include study of the psychological, social and cultural changes and legal ramifications associated with movement sciences. (Capstone Course)

**3324 Movement Exploration in Exercise and Sports Science. (2-2)** Introduction to the principles and content of movement exploration, fundamental and specialized sports skills with an emphasis on skill themes, movement concepts, perceptual motor development and basic lead-up activities for sports.

(WI) **3326 Evaluation Techniques of Athletic Injuries. (3-0)** A study of anatomy, injury signs and symptoms, and specific tests used in an initial clinical evaluation of athletic injuries.

**3327 Movement Sport and Fitness Activities. (2-2)** Introduction to the principles and concepts for skill development in the basic sport activities. The development and assessment of the major components of physical fitness will also be stressed. Prerequisite: Successful completion of Physical Education 3324.

(WI) **3329 Introduction to Motor Learning. (3-0)** Physiological and psychological development of the child in relation to learning neuromuscular activities. Inquiry will be made into the various motor learning theories.

(WI) **3336 Athletic Modalities. (3-0)** A study of sports therapy physical agents such as cryotherapy, hydrotherapy and electrotherapy as well as mechanical therapy.

**3340 Coaching of Women's Sports. (3-0)** Techniques and theories underlying the coaching of girls' and women's sports. Special emphasis upon aids, equipment, organization, and administration of the program.

(WI) **3346 Athletic Therapeutic Exercise. (3-0)** A study of sports therapy clinical techniques involved in muscle testing, goniometry, and therapeutic exercise used in the rehabilitation of athletic injuries.

(WI) **3356 Management of Athletic Training Programs. (3-0)** Provides a review of measures for the prevention, management, and rehabilitation of athletic injuries. Problems such as nutrition, physical examination, and athletic training facilities and equipment are discussed. (Capstone Course)

**4317 Exercise Testing and Prescription (2-2)** To develop knowledge, skills, and competence required to access and prescribe exercise for various populations and to gain practical experience related to health/fitness management programs.

**4319 Organization and Administration of Exercise and Sports Science Programs. (3-0)** Coordination of all aspects of comprehensive exercise and sports science programs including physical activities, recreation and sports.

(WI) **4323 Physical Activity and Recreation for the Handicapped. (3-2)** Selecting special activities in terms of individual needs and capacities and modifying those found in the regular program. Opportunity to engage in activities and to observe demonstrations using handicapped persons.

**4337 Independent Study of Special Problems in Physical Education. (3-0)** For the undergraduate student who displays promise and aptitude in physical education research. The student learns the procedures, collects data pertinent to, and analyzes the results of the research. Prerequisite: 3.00 or higher grade-point average and permission of the department.

**4351 Measurement and Evaluation. (3-0)** Measurement techniques unique to the evaluation of physical performance objectives, including physical fitness and acquisition of basic motor and sports skills. Practical experiences are provided in test administration, scoring, and interpretation of results.

**4391 Football Coaching. (3-0)** Methods of coaching are studied through lectures, demonstrations, and reading of present-day literature.

**4392 Basketball Coaching. (3-0)** Methods of coaching will be studied through lectures, demonstrations, and reading present-day literature.

**4393 Coaching Track/Field. (3-0)** The purpose of this course is to train students to become track/field coaches in the public schools. The focus of the course will be on the fundamentals of the sports, the formulation of practice schedules, game or meet preparation, and the handling of young athletes.

## Bachelor of Health and Wellness Promotion Major in Health and Wellness Promotion (Minimum required: 137-138 semester hours)

Freshman Year	Hours
Biology 1310 .....	3
Speech Communication 1310 .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
Health Education 1310, 2338 .....	6
History 1310, 1320 .....	6
Mathematics 1315, 1316 or 1319 .....	3
Phy. Fitness Perspective (one course) .....	1
Social Work 1350 .....	3
Social Science Perspective .....	3

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Sophomore Year	Hours
Biology 1420, 2430 .....	8
Literary Perspective .....	3
Health Education 2340, 3301 .....	6
Health Education 2354 .....	3
Health Education 3376 .....	3

Philosophy 1305 .....	3
Phy. Fitness Perspective (one course).....	1
Political Science 2310, 2320 .....	6
Sociology 1310.....	3

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Junior Year Hours

Art, Dance, Music, or Theatre 3313 .....	3
International Perspective Spanish 1420, or 2310, or 2320 (See Adviser).....	3-4
Health Education 3348, 4340, 3350 .....	9
Family and Consumer Sciences 3362 .....	3
Mass Communications 3343.....	3
Computer Science 1308.....	3
Psychology 3350 .....	3
Sociology 3324 and 3327 or 3363.....	6

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<b>Senior Year</b>	<b>Hours</b>
Health Professions 3351 .....	3
Health Education 4311 (Capstone course).....	3
Health Education 4350, 4660 .....	9
Physical Education 3317 .....	3
Health Professions 3302 .....	3
Electives*.....	12

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\*Suggested Electives: Technology 1450, 3350; Biology 2440, 3351, 3407; Mass Communication 3367; Psychology 3361; Sociology 3319, 3324, 3327, 3383; Social Work 2375, 3312, 4315 (if a Sociology minor is desired, three of the Sociology courses must be elected). It is suggested that a person who is not proficient in Spanish take Spanish 1410 and 1420.

**Bachelor of Health and Wellness Promotion**  
**Major in Health and Wellness Promotion**  
**(Minimum required: 131 semester hours**  
**with teaching certification)**

Secondary Certification - Option I

<b>Freshman Year</b>	<b>Hours</b>
Biology 1310 .....	3
Speech Communication 1310 .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
Health Education 1310, 2354 .....	6
History 1310, 1320 .....	6
Mathematics 1315, 1316, or 1319 .....	3
Phy. Fitness Perspective (one course).....	1
Social Science Perspective .....	3
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<b>Sophomore Year</b>	<b>Hours</b>
Biology 1420, 2430 .....	8
Literary Perspective .....	3
Health Education 2338, 2340, 3301 .....	9
Philosophy 1305 .....	3
Phy. Fitness Perspective (one course).....	1
Political Science 2310, 2320 .....	6
Elective .....	3
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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Computer Science 1308 or Psychology 3353 .....	3
Curriculum and Instruction 3325, 4332 .....	6
English 3316, 3321, 3322, 3328, or 3329 .....	3
Health Education 3342, 3348, 3350, 3360 .....	12
Health Education 4354 or Family and Consumer Sciences 3362 .....	3
Reading 3323 .....	3
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Senior Year	Hours
Curriculum and Instruction 4341,	
	<b>4343 6</b>
Education 4681 .....	6
Health Education 4336, 4350 .....	6
Health Education 4311	
(Capstone course) .....	3
Electives .....	12
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**Bachelor of Health and Wellness Promotion**  
**Major in Health and Wellness Promotion**  
**(Minimum required: 131-137 semester hours**  
**with teaching certification)**

Secondary Certification - Option II

<b>Freshman Year</b>	<b>Hours</b>
Biology 1310 .....	3
Speech Communication 1310 .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
Health Education 1310, 2354 .....	6
History 1310, 1320 .....	6
Mathematics 1315, 1316, or 1319 .....	3
Phy. Fitness Perspective (one course) .....	1
Social science perspective .....	3

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<b>Sophomore Year</b>	<b>Hours</b>
Biology 1420, 2430 .....	8
Literary Perspective .....	3
Health Education 2338, 2340 .....	6
Philosophy 1305 .....	3
Phy. Fitness Perspective (one course) .....	1
Political Science 2310, 2320 .....	6
Second teaching field* .....	6-9

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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Computer Science 1308 or Psychology 3353 .....	3
Curriculum and Instruction 3325, 4332 .....	6
English 3316, 3321, 3322, 3328, or 3329 .....	3
Health Education 3348 .....	3
Health Education 3301 .....	3
Health Education 3350 .....	3
Second teaching field* .....	9-12

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<b>Senior Year</b>	<b>Hours</b>
Curriculum and Instruction 4341, 4343 .....	6
Education 4681** .....	6
Health Education 4311 (Capstone course) .....	3
Health Education 4336, 4350 .....	6
Reading 3323 .....	3
Second teaching field* .....	9

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\*Courses toward a second teaching major are recommended in order to improve job opportunities.

\*\*Consult academic advisor if you plan to student teach in an additional teaching field.

## **Courses in Health Education (H ED)**

(WI) **1310 (PHED 1304) Foundations of Health. (3-0)** An introduction to health education to acquaint students with basic principles of orthobiosis. Emphasis on the relevance of educating for health, present health trends and their implications.

**2338 (PHED 1346) Contemporary Drug Issues. (3-0) Explores problems of decision making, emotional health, and choice of life styles in modern culture. Emphasis is upon prevention and effective teaching as a tool in this process. All mood and behavior modifiers are taken into consideration, as well as effects of drug dependency.**

**2340 Community Health. (3-0)** Acquaints the student with all aspects of community and public health, functions of the community, voluntary and public health services at local, state, national, and international levels. Selected current health problems, pathological conditions, poverty, health care delivery problems related to school health.

**2354 (PHED 1306) First Aid and Safety Education. (3-0)** Lecture, laboratory course in Standard First Aid procedures, Cardiopulmonary Resuscitation, and safety education. Opportunities given for American Red Cross Certification.

**3301 Environmental Health Issues. (3-0)** An examination of the ecological impact resulting from contemporary sociopolitical action and its resulting influence on human health.

**3321 Health in the Elementary Setting. (3-0)** Examination of traditional content matter in health promotion at the elementary level. Course may not be counted in the health and wellness promotion or exercise and sports science major/minor programs.

(WI) **3342 School Health Program. (3-0)** Function and scope of school health services and healthful school living. Investigation and developing skills in screening tests, health appraisals, health counseling, accident prevention, and supervision of the health environment and health service personnel.

**3348 Prevention of Disease. (3-0)** Epidemiology of disease entities, identification and control of major communicable diseases of man. Special emphasis pertains to chronic disease, and the present epidemic of sexually transmitted disease in our society. The sexually transmitted disease division of the Texas Public Health Department provides consultant services.

**3350 Consumer Health. (3-0)** Involves students in establishing concepts toward self-protection against the continual bombardment in sales promotion about health products and services. The legislation, investigation, and education conducted by organization and agencies. Prevention of quackery in unsolved health problems.

**3360 Family Life and Sex Education. (3-0)** An indepth study for the prospective elementary and secondary teacher concerning the topic of instruction and the methods of teaching for grades kindergarten through twelfth in family life and sex education. Special emphasis on curriculum development and implementation.

**3375 Health Promotion. (3-0)** The role of health promotion in society today. Emphasis given to the nature of human development, techniques to promote health, health promotion media and resources, and health promotion content area.

**3376 Health Promotion in the Workplace. (3-0)** The purpose of this course is to orient students with the concept of health promotion as it relates to worksite wellness. Focus will be upon the planning, implementation, and evaluation of worksite wellness programs. Also to be discussed are other contemporary health issues in society.

(WI) **4311 Organization and Administration of a School Health Program. (3-0)** Organization and development of functional and comprehensive health program, including both elementary and secondary levels; emphasis upon coordination of all aspects of the program, evaluation of health needs of pupils and community, and use of community resources in school health programs. (Capstone Course)

**4336 Concepts and Resources for Health and Wellness Promotion. (3-0)** A survey of the function, roles, practices, concepts and activities that are generic to practitioners in health and wellness promotion programs. Content includes conducting health needs assessment, planning, prevention concepts, models for health promotion and marketing, implementation guidelines, program evaluation and programming for special health concerns including stress management, weight control, and smoking cessation. (Capstone Course)

(WI) **4340 Principles of Community Health Education. (3-0)** Application of principles and techniques of public relations to the community health oriented public, consideration of different communication media, analysis of the effectiveness of each. Group dynamics in relation to the special needs of community health educators, basic issues and assumptions, cohesiveness, leadership and group performance. Prerequisite H ED 2340.

**4347 Independent Study in Health Promotion. (3-0)** Designed for the undergraduate student who displays promise and aptitude for independent research study of a special problem in health promotion. Tutorial support will direct and enrich the research study project and will provide an opportunity for professional growth. Open on an individual basis by arrangement with the department chair.

**4350 Community Health Analysis.(3-0)** Methods of evaluating community health needs and health education programs including instrument design, data gathering techniques, ability to use demographic data and vital statistics, interpreting, reporting, and application of findings for program involvement. Prerequisite H ED 2340.

**4354 Instructor First Aid. (3-0)** Lecture, discussion, demonstration, and skill practice in community first aid and CPR, including instructor training. Opportunity for attaining American Red Cross instructor certification for Community First Aid and Safety is given. No prerequisites are required.

(WI) **4660 Internship in Public Health. (0-18)** Participation in the on-going work of an official and/or voluntary health agency. The internship will be supervised by a member of the health education faculty. A minimum of one conference hour per week. Prerequisite H ED 4340 and 4350.

## Bachelor of Science in Recreational Administration

### Major in Recreational Administration

**(Minimum required: 130-132 semester hours)**

Freshman Year	Hours
Speech Communication 1310 .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
History 1310, 1320 .....	6
Mathematics 1315 or 1316 .....	3
Philosophy 1305 .....	3
Phy. Fitness Perspective (two courses) .....	2
Recreation 1310, 1320, 2330 .....	9
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Sophomore Year	Hours
Accounting 2361 .....	3
Literary Perspective .....	3
Natural Science Perspective .....	7-8
Social Science Perspective .....	3
Political Science 2310, 2320 .....	6
Computer Literacy (CIS 1323, CS 1308, AG 2390) .....	3
Recreation 1330, 2335, 3360 .....	9
	34-35

Junior Year	Hours
Art, Dace, Music, or Theatre 3313 .....	3
International Perspective .....	3
Marketing 3343 .....	3
Media Literacy (TECH 1450, 3350, MC 2374, 3343) .....	3-4
Communication (1315, 2330, 2320, 2338) .....	3
Supportive courses* .....	6

Recreation 3325, 3340, 3351, 4381 ..... 12

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<b>Senior Year</b>	<b>Hours</b>
Fitness/Wellness (HED 1310, 2338, 3321, PE 3317, 3320, 3371).....	3
Recreation 4380 (Capstone course) .....	3
Recreation 4350, 4680.....	9
Supportive courses* .....	9
Electives .....	6

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**Bachelor of Science in Recreational Administration**  
**Major in Recreational Administration**  
**(Minimum required: 131-133 semester hours**  
**with Therapeutic Recreation Emphasis)**

<b>Freshman Year</b>	<b>Hours</b>
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics 1315 or 1316 .....	3
Natural Science Perspective.....	7-8
Phy. Fitness Perspective (two courses) .....	2
Recreation 1310, 1320, 2330.....	9

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**Sophomore Year** **Hours**

Speech Communication 1310 .....	3
Communication (1315, 2330, 2320, 2338, CDIS 1410, 1420) .....	3-4
Literary Perspective .....	3
Health Education 2354 .....	3
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Social Science Perspective .....	3
Recreation 1330, 2335, 3360.....	9

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**Junior Year** **Hours**

Art, Dance, Music, or Theatre 3313 .....	3
International Perspective .....	3
Biology 2430 .....	4
Computer Literacy (CIS 1323, CS 1308, AG 2390, TECH 2365).....	3
Psychology 2315 .....	3
Recreation 3325, 3340, 3351, 4381 .....	12
Recreation 2320, 3320.....	6

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**Senior Year** **Hours**

Marketing 3343 .....	3
Recreation 4380 (Capstone course) .....	3
Recreation 4320, 4350, 4680.....	12
Supportive courses*.....	9
Psychology 3315 .....	3

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\*Supportive courses: To be prescribed by faculty advisor.

Students completing requirements for the Therapeutic Recreation Emphasis will be eligible to sit for the certification exam given by the National Council for Therapeutic Recreation Certification (NCTRC).

## **Courses in Recreational Administration (REC)**

**1310 Introduction to Recreation and Leisure Services. (3-0)** Introduction to recreation, includes brief historical backgrounds, professional opportunities, present status, past and present leaders. Role of leisure time in our social structure, professional responsibility, familiarization with current issues and trends, and professional literature. Lecture and field trips. A grade of "C" or better in this course is required to enroll in any upper division Recreational Administration courses.

**1320 Introduction to Therapeutic Recreation. (3-0)** History, philosophy, appropriate terminology and professional opportunities in the therapeutic recreation profession. Identification of client groups and the role leisure time activity plays in their lives. Lecture and field trips.

**1330 Leisure and Outdoor Recreation. (3-0)** An overview of the role of the natural world in recreation and leisure services. The course will focus on values of outdoor recreation, outdoor education, adventure recreation, environmental impact, and the role of government in the provision of outdoor recreation.

**2320 Principles in Therapeutic Recreation. (3-0)** Knowledge and understanding of the principles of therapeutic recreation services. Acquiring ability to apply this knowledge in developing appropriate therapeutic recreation programs and services relative to motor, social and educational needs of participants.

**2330 Leadership and Outdoor Recreation. (2-2)** Discussion of leadership theories and skill development for indoor-outdoor games and sports. Teaching activities to develop skill in programming various indoor/outdoor recreational settings.

(WI) **2335 (PHED 1336) Recreation Program Development. (3-0)** Basic principles and procedures for developing recreation programs responsive to human needs. Provides the opportunities to acquire and utilize recreation programming skills through practical application.

(WI) **3320 Practices and Interventions in Therapeutic Recreation. (3-0)** Acquiring knowledge, understanding and application of practices in therapeutic recreation services, including facilitation and intervention strategies and helping techniques in clinical and community settings, as they relate to administration and current critical issues facing the field.

**3325 Recreation Administration. (3-0)** Organization and administration practices such as budgeting and purchasing, office management, annual reports, supervision of personnel, working with boards and volunteer leaders. Prerequisite: Accounting 2361.

**3340 Design and Maintenance of Recreational Facilities. (2-2)** Introduce theories and provide practical experience in the design, development, operation, maintenance, administration of various recreational facilities. Prerequisite: REC 2335.

(WI) **3351 Evaluation of Leisure Service Programming. (3-0)** Methods, techniques and application of the evaluation process related to a wide variety of leisure service functions: clientele and prospective participants, programs, personnel, facilities, organizations and literature. Prerequisites: Recreation 2335 and REC 3360.

**3360 Field Work in Recreation Leadership. (0-10)** The student participates at the leadership level in the ongoing work of a selected recreation agency. The work is supervised by an agency representative and a faculty member trained in the recreation field. Prerequisite: Recreation 1310.

**4318 Selected Topics in Recreation and Leisure Services. (3-0)** A topic course in selected professional applications of Recreation and Leisure Services. Topics to include: Military Recreation, Commercial and Entrepreneurial Recreation, and Campus Recreation.

(WI) **4320 Leisure Education. (3-0)** A philosophical overview of leisure education emphasizing the approaches and strategies that can be utilized in leisure education process.

(WI) **4323 Physical Activity and Recreation of the Handicapped. (3-2)** Selecting special activities in terms of individual needs and capacities and modifying those found in the regular program. Opportunity to engage in activities and to observe demonstrations including persons with disabilities.

(WI) **4337 Independent Study in Recreational Administration. (3-0)** Individual study related to recreational administration under direct supervision of a faculty member.

**4350 Theories and Methods of Supervision in Recreation and Leisure Services. (3-0) Presents theories and methods relating to recruiting, selecting, hiring, training, disciplining and discharging employees. Also addresses legal issues related to personnel.**

(WI) **4380 Seminar in Recreation. (3-0)** Seminar on current problems and trends in the delivery of leisure services. Specific emphasis is placed on cause and effect interactions of leisure services programs and environmental issues. Prerequisite: Recreation 3351. (Capstone Course)

**4381 Directed Field Experience in Programming Recreation. (0-10)** The student participates at the programming/leadership level in the ongoing work of a selected recreation agency. The work is supervised by an agency representative and a faculty member trained in the recreation field. Prerequisite: Recreation 2335 and 3360.

**4680 Internship in Recreation. (0-20)** The student participates at the administrative level in the ongoing work of a selected parks and recreation agency. The work is supervised by an agency representative and a faculty member trained in the recreation field. Prerequisite: Recreation 4382.

For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.







# **SCHOOL OF FINE ARTS AND COMMUNICATION**

**T. Richard Cheatham, Ph.D., Dean**  
**Steven A. Beebe, Ph.D., Associate Dean**  
**Cathy Fleuriet, Ph.D., Associate Dean**

## **Department Chairs**

Art and Design .....Brian G. Row, M.F.A.  
Mass Communication .....Frederick R. Blevens, Ph.D.  
Music ..... Manny Brand, Ph.D.  
Speech Communication .....Steven A. Beebe, Ph.D.  
Theatre .....Frederick J. March, M.A.

## **SCHOOL OF FINE ARTS AND COMMUNICATION**

The School of Fine Arts and Communication offers three undergraduate degrees: the Bachelor of Arts (BA), the Bachelor of Fine Arts (BFA), and the Bachelor of Music (BM). Programs within the school are available in advertising design, graphic design, illustration, studio art, art education, music performance, music theory, music education, mass communication, speech, and theatre. Graduates of these programs are trained to work in areas of public relations, advertising, broadcasting, news journalism, organizational communication, rhetorical studies, education, acting, directing, scene design, and costuming.

In addition to the school's formal degree programs, students have the opportunity to pursue a number of co-curricular programs. These are available to all SWT students, regardless of major or minor, and range from acting, marching band, wind ensemble, choir, orchestra, and debate, attendance to art exhibits, lectures and workshops, to production work in KTSW, the campus radio station, or one of three student publications: *The Daily University Star* (newspaper), *The Pedagog* (yearbook), or *Hillside Scene* (magazine).

For more information, call 512-245-1932 or visit the advising center in Old Main 110.

## Department of Art and Design

*Chair and Professor-Row. Professors-Conroy, Kolbe, Laman, Nielsen, Todd, Weller, Wilson. Associate Professors-Carraro, Colombik, Greer, Gregory, Penn, Meek, R. Reid, Williams. Assistant Professors-D. Shields, H. Shields. Instructors-Barnett, Christian, Cordes, English, Fabian, Fernandez, Holland, Kildare, Krabbenhoft, Lawton, Marince, Marquardt, McEntire, Odem, Pauler, Pizer, M-M. Reid, Vilet. Lecturer-Taylor.*

The Department of Art and Design promotes the understanding of art in culture by providing a learning environment that advances students' critical and creative thinking, encourages diverse perspectives, and nurtures individual artistic expression. The Department fosters creative and scholarly activities that develop students' conceptual and technical abilities and encourages visually articulate thinkers. The faculty come from diverse educational, professional and cultural backgrounds. Through effective teaching, the Department of Art and Design helps students achieve excellence in their individual, artistic and career goals.

The Department of Art and Design offers eight programs leading to the following degrees: Bachelor of Fine Arts (BFA) with a major in Communication Design that includes areas of study in advertising art direction, graphic design, hypermedia, and illustration; Bachelor of Fine Arts with a major in Studio Art that offers specializations in ceramics, drawing, fibers, metals, painting, photography, printmaking, sculpture, and watercolor; Bachelor of Fine Arts leading to All-Level or Secondary Certification or the Bachelor of Arts (BA) leading to Secondary Certification (two options) that prepare students for teaching art in elementary and secondary schools; Bachelor of Art with a major in Art with an emphasis in Art History that provides an intellectual foundation and a broad background in the history of art, aesthetics and art criticism; and a Bachelor of Arts with a major in Art that provides broad exposure to art.

All art and design majors are encouraged to enter the annual student exhibition and to take advantage of the University Art Gallery and visiting artists programs. An active internship program is available for all qualified art and design majors.

For more information, call 512-245-2611 or visit the Art Building Room 411.

For information about the Interior Design program, refer to the Department of Family and Consumer Sciences section of this catalog or call 512-245-2155.

## Special Requirements

All senior art and design majors are required to participate in a Senior Exhibition, within the academic year they plan to graduate.

A student is officially accepted into one of the BFA programs upon completion of selected freshman, sophomore and junior art courses with a minimum Grade Point Average (GPA) of 3.0. A transfer student is eligible for acceptance into the BFA programs upon completion of selected SWT freshman, sophomore and junior courses with a minimum GPA of 3.0 or the equivalent of those requirements as certified by the Chair of the Department of Art and Design. A student with a GPA below 3.0 after completing the requirements may: (1) repeat courses in order to improve GPA, or (2) submit a portfolio to the Chair of the Department of Art and Design and faculty review committee. Upon the committee's recommendations, the approval of the Chair, and with the completion of any deficiencies, students may receive official acceptance into a BFA program. See the Department Chair for details.

## General Studies

Students should discuss options in the university's general studies curriculum with an advisor. Specific General Studies requirements are listed on page 60. See the College of General Studies section of this catalog for course requirements.

## Bachelor of Fine Arts Major in Communication Design (Minimum required: 130 semester hours)

### Notes:

1. A minimum of 130 semester hours are required for graduation with at least 40 upper division hours.
2. The Communication Design art degree plan requires a minimum of 78 semester hours in Art and 3 hours in Technology (Tech 2365).
3. BFA students majoring in Communication Design must participate in an informal portfolio review before enrolling in upper division courses; this process constitutes admission into the Communication Design program.
4. General Studies requirements must be met.

### Freshman Year

<b>ArtF 1301</b>	<b>3</b>
ArtF 1302 .....	3
ArtF 1303 .....	3
ArtF 1304 .....	3
ArtC 1301 .....	3
ArtC 1302 .....	3

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Hours	18
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**Sophomore Year**

ArtC 2303 .....	3
ArtC 2304 .....	3
ArtH 2301 .....	3
ArtH 2302 .....	3
ArtS 2321 .....	3
ArtS 2351 .....	3
ArtS 2371 .....	3

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Hours	21
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Tech 2365 .....	3
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Tech hrs. ....	3
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**Junior Year**

Communication Design Studio .....	6
AtC Elective .....	3
ArtH 3301 .....	3
ArtH 3303 .....	3
Select one: ArtS 2311, ArtS 2341, ArtS 2381, ArtS 2331 .....	3

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Hours	18
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**Senior Year**

Communication Design Studio .....	6
ArtC Electives .....	9
ArtC 4310 or ArtC Elective .....	3
Art(C,H,S,T) Elective .....	3

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Hours	21
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\* Select one course from each Communication Design Studio Area: Advertising Art Direction (Studio I), Graphic Design (Studio II), Hypermedia (Studio III), Illustration (Studio IV). {See Departmental Worksheet or Advisor}.

\*\* Select from any ArtC course except if already taken as a Communication Design Studio course.

## Bachelor of Fine Arts Major in Studio Art (Minimum required: 128-129 semester hours)

### Notes:

1. A minimum of 128 semester hours are required for graduation with at least 40 upper division hours.
2. The major in Studio Art requires a minimum of 75 semester hours in art. A minimum of 21-22 semester hours are required within a chosen area of specialization: ceramics, drawing, fibers, metals, painting, photography (for photography 12 semester hours in fine art photography from Art and 10 semester hours from Technology are required), printmaking, sculpture, or watercolor.
3. The major in Studio Art includes 21 semester hours of art electives.
4. General Studies requirements must be met.

### Freshman Year

ArtF 1301 .....	3
ArtF 1302 .....	3
ArtF 1303 .....	3
ArtF 1304 .....	3
ArtS 2321 .....	3
ArtS from Specialization .....	3-4

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Hours	18-19
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### Sophomore Year

ArtS from Specialization .....	6
ArtS requirement, 2-D option .....	3
ArtS requirement, 3-D option .....	3
ArtH 2301 .....	3
ArtH 2302 .....	3

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Hours	18
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### Junior Year

ArtS from Specialization .....	6
ArtS 3322 .....	3
ArtH 3301 .....	3
ArtH 4301 .....	3
ArtC 1302 .....	3

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Hours	18
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### Senior Year

ArtS from Specialization .....	6
Art(C,H,S,T) Electives.....	15

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Hours	21
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\* For Photography Specialization only requirement includes: Tech 1450 fr. yr., Tech 4350 soph. yr., and Tech 4355 jr. yr.

**Bachelor of Fine Arts  
Major in Art  
(Minimum required: 139 semester hours  
with teaching certification)**

**Notes:**

1. 139 semester hours are required for graduation with at least 40 upper division hours.
2. 75 semester hours in art are required.
3. Prior to student teaching, majors must complete all required ArtT courses.
4. Prior to student teaching, majors should complete all required art courses.
5. Certification is in art (K through 12) only.
6. General Studies and teacher education requirements must be met.

**Freshman Year**

ArtF 1301 .....	3
ArtF 1302 .....	3
ArtF 1303 .....	3
ArtF 1304 .....	3
ArtS 2321 .....	3
ArtS 2381 .....	3

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Hours	18
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**Sophomore Year**

ArtS 2311 .....	3
ArtS 2331 .....	3
ArtS 2341 .....	3
ArtS 2351 .....	3
ArtS 2371 .....	3
ArtS 2391 .....	3
ArtH 2301 .....	3
ArtT 2371 .....	3
ArtT 3372 .....	3

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Hours	27
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**Junior Year**

ArtS 3362 .....	3
Art 3313 .....	3
ArtH 3301 .....	3
CI 3310 .....	3
CI 3325 .....	3
ArtT 3373 .....	3
ArtT 3374 .....	3
ArtS Elective** .....	3
ArtS Elective** .....	3
CI 4332 .....	3
CI 4343 .....	3

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Hours	33
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**Senior Year**

ArtT 4375 .....	3
ArtS Elective .....	3
ArtH 2302 .....	3

**RDG 3323** **3**

ED 4380 .....	3
ED 4381 .....	3

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Hours	18
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\* Tech 1450 is required before taking this course.

\*\* One of the three art electives must be selected from the following studio areas: Ceramics II 3312, Drawing II 3322 or Drawing III 3323, Fibers II 3332 or Fibers IV 3334, Metals II 3342, Painting II 3352, Fine Art Photography 4365, Printmaking II 3372, Sculpture II 3382, or Watercolor II 3392. Course selection for the remaining two Art(C,H,S,T) Electives must be discussed in detail with your Art Education Advisor and the Department Chair in light of your educational and career goals.

**Bachelor of Fine Arts  
Major in Art  
(Minimum required: 139 semester hours  
with teaching certification)**

**Notes:**

1. 139 semester hours are required for graduation with at least 40 upper division hours.
2. 75 semester hours in art are required.
3. Prior to student teaching, majors must complete all required ArtT courses.
4. Prior to student teaching, majors should complete all required art courses.
5. Certification is in art (7 through 12) only.
6. General Studies and teacher education requirements must be met.

**Freshman Year**

ArtF 1301 .....	3
ArtF 1302 .....	3
ArtF 1303 .....	3
ArtF 1304 .....	3
ArtS 2321 .....	3
ArtS 2381 .....	3

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Hours	18
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**Sophomore Year**

ArtS 2311 .....	3
ArtS 2331 .....	3
ArtS 2341 .....	3
ArtS 2351 .....	3
ArtS 2371 .....	3
ArtH 2301 .....	3
ArtH 2302 .....	3
ArtS 2391 .....	3
ArtT 2371 .....	3

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Hours	27
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**Junior Year**

ArtS 3362 .....	3
Art 3313 .....	3
CI 3310 .....	3
ArtT 3373 .....	3
ArtT 3374 .....	3
CI 3325 .....	3
ArtS Elective** .....	3
ArtS Elective** .....	3
CI 4332 .....	3
CI 4343 or ARTS Elective .....	3

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Hours	30
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**Senior Year**

ArtT 4375 .....	3
ARTS Elective** .....	3
ArtH 3301 .....	3
RDG 3323 .....	3
ED 4681 .....	6

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Hours	18
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\* Tech 1450 is required before taking this course.

\*\* One of the four art electives must be selected from the following studio areas: Ceramics II 3312, Drawing II 3322 or Drawing III 3323, Fibers II 3332 or Fibers IV 3334, Metals II 3342, Painting II 3352, Fine Art Photography 4365, Printmaking II 3372, Sculpture II 3382, or Watercolor II 3392. Course selection for the remaining three Art(C,H,S,T) Electives must be discussed in detail with your Art Education Advisor and the Department Chair in light of your educational and career goals.

**Bachelor of Arts**  
**Major in Art**  
**(Minimum required: 139 semester hours**  
**with teaching certification)**

**Notes:**

1. 139 semester hours are required for graduation with at least 40 upper division hours.
2. 42 semester hours in art are required.
3. Prior to student teaching, majors must complete all required ArtT courses.
4. Prior to student teaching, majors should complete all required art courses.
5. Certification is in art (7 through 12) Option I only.
6. A minor is required. Consultation with an advisor is recommended.
7. General Studies, B.A., and teacher education requirements must be met.

**Freshman Year**

ArtF 1301 .....	3
ArtF 1302 .....	3
ArtF 1303 .....	3
ArtS 2321 .....	3
ArtS Elective* .....	3

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Hours	15
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**Sophomore Year**

Arts Elective* .....	6
ArtH 2301 .....	3
ArtH 2302 .....	3
ArtT 2371 .....	3
Minor Hours .....	6

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Hours	15
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**Junior Year**

ArtT 3373 .....	3
ArtT 3374 .....	3
CI 3310 .....	3
CI 3325 .....	3
CI 4332 .....	3
CI 4343 .....	3
Minor Hours .....	9

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Hours	18
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**Senior Year**

ArtT 4375 .....	3
Arts Elective* .....	6
Arts Elective* .....	6
RDG 3323.....	3
Ed 4681 .....	6
Minor Hours .....	3

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Hours	18
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\*Choose two 2-D courses and two 3-D courses:

2D - ArtS 2351 Painting I, ArtS 2371 Printmaking I, ArtS 2391 Watercolor I, or ArtS 3362 Fine Art, Photography (Prerequisite: Tech 1450)

3D - ArtS 2311 Ceramics I, ArtS 2331 Fibers, ArtS 2341 Metals I, or ArtS 2381 Sculpture.

**Bachelor of Arts  
Major in Art  
(Minimum required: 139 semester hours  
with teaching certification)**

**Notes:**

1. 139 semester hours are required for graduation with at least 40 upper division hours.
2. 36 semester hours in art are required.
3. Prior to student teaching, majors must complete all required ArtT courses.
4. Prior to student teaching, majors should complete all required art courses.
5. Certification is in art Option II (7 through 12), and students may elect certification in their minor.
6. A minor is required. Consultation with an advisor is recommended.
7. General Studies, B.A., and teacher education requirements must be met.

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**Freshman Year**

ArtF 1301 .....	3
ArtF 1302 .....	3
ArtF 1303 .....	3
ArtS Elective* .....	6

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Hours	15
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**Sophomore Year**

ArtS Elective*	3
ArtT 2371	3
ArtH 2301 or ArtH 2302	3
Hours	9

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Minor	Minor Hours 9
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**Junior Year**

ArtT 3373	3
ArtT 3374	3
CI 3310	3
CI 3325	3
CI 4332	3
CI 4343	3
Minor Hours	12

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Hours	18
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**Senior Year**

ArtT 4375 .....	3
ArtS Elective* .....	3
Minor .....	3
RDG 3323 .....	3
ED 4681 .....	6
Hours .....	18

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Minor	Minor Hours 3
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\* Choose two 2-D courses and two 3-D courses:

2D - ArtS 2351 Painting I, ArtS 2371 Printmaking I, ArtS 2391 Watercolor I, or ArtS 3362 Fine Art, Photography (Prerequisite: Tech 1450) 3D - ArtS 2311 Ceramics I, ArtS 2331 Fibers, ArtS 2341 Metals I, or ArtS 2381 Sculpture.

**Bachelor of Arts  
Major in Art  
(Minimum required: 128-129 semester hours  
with Art History Specialization)**

**Notes:**

1. A minimum of 128 semester hours are required for graduation with at least 40 upper division hours.
2. The specialization in Art History includes 48 semester hours of art.
3. A minor is required. Some minors may exceed 24 hours.
4. General Studies and BA requirements must be met.

**Freshman Year**

ArtF 1301 .....	3
ArtF 1302 .....	3
ArtH 2301 .....	3
ArtH 2302 .....	3

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Hours	12
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**Sophomore Year**

ArtF 1303 .....	3
ArtF 1304 .....	3
ArtH 3301 .....	3
ArtH 3302 .....	3
Hours .....	12

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Minor	Minor Hours 3
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**Junior Year**

ArtH Elective .....	6
ArtT 4375 .....	3
Phil 4350 .....	3
Hours .....	12

Minor	Minor Hours 6
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**Senior Year**

ArtH 4301 .....	3
ArtH 4323 .....	3
ArtH Electives .....	6
Art(C,H,S,T) Elective .....	3
Hours .....	15

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Minor

Minor Hours 15

**Bachelor of Arts  
Major in Art  
(Minimum required: 128 semester hours)**

**Notes:**

1. A minimum of 128 semester hours are required for graduation with at least 40 upper division hours.
2. Consult with Department Chair concerning how to meet the minimum of 40 advanced hours needed for graduation.
3. 45 semester hours of art are required.
4. A minor is required. Some minors may exceed 24 hours.
5. General Studies and BA requirements must be met.

**Freshman Year**

ArtF 1301 .....	3
ArtF 1302 .....	3
ArtF 1303 .....	3
ArtS 2321 or ArtS 2371 .....	3

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Hours

12



**Sophomore Year**

ArtS 2311 or ArtS 2381 .....	3
ArtS 2351 or ArtS 2391 .....	3
ArtH 2301 .....	3
ArtH 2302 .....	3

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Hours	12
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**Junior Year**

ArtS 2331 or ArtS 2341 .....	3
ArtH 3301 .....	3
Art Elective Advanced .....	6
Hours .....	12

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Minor	Minor Hours 9
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## Senior Year

ArtH 4301 .....	3
Art Elective Advanced.....	6
Hours .....	9

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Minor	Minor Hours 15
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\*Consult with Department Chair regarding substituting upper division art courses for lower division art courses.

## Minors in Art

Requirements for an art minor with certification are listed on page 167. Requirements for an art minor without certification are listed on page 71.

## Courses in Art (Art)

**3313 Introduction to Fine Arts. (3-0)** A study of the interrelation of art with dance, music and theatre. This course may not be repeated for credit by taking Music 3313, Theatre 3313, or Dance 3313.

## Courses in Art Foundations (ArtF)

**1301 (ArtS 1311) 2-D Design. (3-3)** Introduction to the elements and principles of design through the use of a variety of two-dimensional media and techniques.

**1302 (ArtS 1316) Basic Drawing. (3-3)** Introduction to a variety of media and techniques for exploring descriptive and expressive possibilities in drawing.

**1303 (ArtS 1312) 3-D Design. (3-3)** Introduction to the elements and the principles of design through the use of a variety of three-dimensional materials and techniques.

**1304 (ArtS 2311) Color Theory. (3-3)** Introduction to color as a descriptive and expressive element of art, focusing on color perception and application.

## Courses in Communication Design (ArtC)

**1301 Communication Design Foundation I. (3-3) Introduces the field of Communication Design including terminology, creative visual thinking/problem solving, layout design, tools, and materials through traditional and computer imaging comping techniques.**

**1302 Communication Design Foundation II. (3-3)** An introduction to the computer and graphics software emphasizing visual strategies.

**2303 Communication Design Foundation III. (3-3)** Introduces the evolution and development of alphabets, letter forms, and typography in relationship to visual expression and communication. Prerequisites: Communication Design Foundation I and II.

**2304 Communication Design Foundation IV. (3-3)** Focuses on concept development through the production of public announcements and advertising posters. Prerequisites: Communication Design Foundation I, II, and III.

**2305 Visualization and Presentation Techniques. (3-3)** Introduces rendering techniques, three-dimensional graphics, and digital imaging for visual presentations. Prerequisites: FCS 1321, ArtF 1302, Tech 1413.

**3301 Art Direction I. (3-3)** Introduces print campaigns for advertising design/art direction. Develops advertising and creative platforms based on client objectives. Prerequisite: Admission into the Communication Design Program.

**3303 Corporate/Package Identity. (3-3)** Focuses on the design process and concept development of corporate identity and package design. Prerequisite: Admission into the Communication Design Program.

**3304 Corporate Marketing Materials. (3-3)** Develops typographic elements, illustration, photo-images and layout design for publication of corporate collateral. Prerequisite: Admission into the Communication Design Program.

**3307 Multimedia I. (3-3)** Introduces digital multimedia communications exploring the elements of design, sound, and motion integrated with digital display. Prerequisite: Admission into the Communication Design Program.

**3310 Illustration. (3-3)** Introduces media and illustration methods for basic image development. Prerequisite: Admission into the Communication Design Program.

**4302 Art Direction I. (3-3)** Introduces campaigns for advertising design/art direction. Develops advertising and creative platforms based on client objectives. Prerequisite: Admission into the Communication Design Program.

**4305 Typographic Design. (3-3)** Continues the study of letter form, typography, image and concept relationships for effective communication. Prerequisite: Admission into the Communication Design Program.

**4306 Environmental Design. (3-3)** Introduces graphic design theories applied to exterior and interior architectural design and signage. Prerequisite: Admission into the Communication Design Program.

**4308 Multimedia II. (3-3)** The study of interactive digital multimedia communication. Focuses on interactive information structure and presentation. Prerequisite: Admission into the Communication Design Program.

**4309 Multimedia III. (3-3)** Further study of interactive digital multimedia communication design emphasizing telecommunication, electronic publishing, and virtual communications environments. Prerequisite: Admission into the Communication Design Program.

**\*4310 Communication Design Practicum. (0-6)** Students are placed in regional graphic design firms and advertising agencies to gain professional design/art experience. Prerequisites: Admission into the Communication Design Program.

**4311 Digital Illustration. (3-3)** A series of projects focusing on individual creative solutions using computer imaging media. Prerequisite: Admission into the Communication Design Program.

**4312 Editorial Illustration. (3-3)** Continues the study of traditional and digital illustration techniques for editorial publication assignments. Prerequisite: Admission into the Communication Design Program.

**\*4313 Communication Design Special Problems. (3-3)** An independent study requiring complex problem solving in Communication Design. Goals and objectives will be outlined in a written format. Prerequisite: Admission into Communication Design Program.

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\* May be repeated with different emphases for additional credit.

## Courses in Art History (ArtH)

**2301 (ArtS 1303) Ancient to Medieval Art. (3-0)** A survey of the history of painting, sculpture, and architecture from pre-historic through medieval periods.

**2302 (ArtS 1304) Renaissance to Modern Art. (3-0)** A survey of art history from the fourteenth century through the nineteenth century.

(WI) **3301 History of Modern Art. (3-0)** A survey of the stylistic trends, aesthetic issues, and evolving philosophy of modern art from 1900 to 1965.

(WI) **3302 History of American Art. (3-0)** A broad survey of the history of American art from 1700 to the present.

(WI) **3303 History of Communication Design. (3-0)** A broad survey of communication design from ancient through contemporary times. Artistic trends, styles, periods, and leading designers are explored.

(WI) **3304 The American West. (3-0)** An interdisciplinary study of the images and visions of the American West through a variety of art media.

(WI) **3305 History of Applied Arts. (3-0)** A survey of the history of fiber, metal and ceramic arts as components of the larger history of art and design.

(WI) **4301 Issues in Contemporary Art. (3-0)** An issue-oriented survey of the diverse forms and concepts present in American art since 1965. Modernism and Postmodernism are explored.

(WI) **4302 Latin American Art. (3-0)** A broad historic survey of visual arts in Latin America from the European conquest to the present.

(WI) **4303 Pre-Columbian Art. (3-0)** A survey of the art of Pre-Columbian sites and cultures, from pre-history to the European conquest. Provides background to the development of art in Mexico, Central, South and North America.

(WI) **4304 History of Cinema. (3-0)** A survey of the history of European and American film as an art form.

(WI) **4305 History of Photography. (3-0)** A survey of the history of photography. The work of leading photographers will be studied in terms of aesthetics, stylistic development, and technical innovations.

(WI) **4306 Renaissance Art. (3-0)** An in-depth survey of the history of art of the Italian and Northern Renaissance with emphasis on stylistic progression, iconography and technical developments.

(WI) **4307 19th Century Art. (3-0)** A broad survey of the history of painting, sculpture, and architecture of nineteenth century Europe and America.

(WI) **4308 Asian Art. (3-0)** A broad survey of the art of Asian cultures including India, Japan, and China from pre-history to the present.

**\*(WI) 4321 Special Topics. (3-0)** A category of courses designed to meet special needs and address issues in art ranging from traditional to non-traditional and contemporary concerns.

**\*(WI) 4322 Special Problems. (3-0)** An advanced level, independent study in art history, aesthetics, and criticism. The emphasis of the course is on scholarship, research, and writing. Consent of instructor required.

(WI) **4323 Art History Thesis. (3-0)** An advanced level, independent study focused on research and methodology in art history. The emphasis of the course is on scholarship, research, and writing. Consent of instructor required.

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\* May be repeated with different emphases for additional credit.

## Courses in Studio Art (ArtS)

**2311 (ArtS 2346) Ceramics I. (3-3)** An introduction to clay as a medium for creative expression. Basic hand-building and wheel-throwing methods of forming are employed to investigate form and develop conceptual awareness. Prerequisites: ArtF 1301, ArtF 1302, and ArtF 1303.

**2321 (ArtS 2323) Drawing I. (3-3)** Introduces the analytical study of the human form and the figure's potential for compositional and expressive use in drawing. Prerequisites: ArtF 1301, ArtF 1302, and ArtF 1304.

**2331 (ArtS 2336) Fibers I. (3-3)** An introduction to fiber techniques as a means of individual expression and problem solving. Prerequisites: ArtF 1301, ArtF 1302, and ArtF 1303.

**2341 (ArtS 2341) Metals I. (3-3)** An introduction to metal as a medium for creative expression emphasizing conceptual awareness while developing technical and creative skills. Prerequisites: ArtF 1301, ArtF 1302, ArtF 1303.

**2351 (ArtS 2316) Painting I. (3-3)** An introduction to painting emphasizing the elements and principles of pictorial composition. Provides the foundation for critical aesthetic judgment while developing technical and creative skills. Prerequisites: ArtF 1301, ArtF 1302, and ArtF 1304.

**2371 (ArtS 2333) Printmaking I. (3-3)** An introduction to relief, monoprint, intaglio, lithographic and silk-screen printing. Provides a historical, technical, visual and conceptual foundation for printmaking. Prerequisites: ArtF 1301, ArtF 1302, and ArtF 1304.

**2381 (ArtS 2326) Sculpture I. (3-3)** An introduction to sculptural materials and processes as a medium for creative expression. Provides the foundation for critical aesthetic judgment while developing technical and creative skills. Prerequisites: ArtF 1301, ArtF 1302, and ArtF 1303.

**2391 (ArtS 2366) Watercolor I. (3-3)** An introduction to the fundamentals of transparent watercolor painting as a medium for creative expression. Prerequisites: ArtF 1301, ArtF 1302, and ArtF 1304.

**3312 Ceramics II. (3-3)** Through pottery forms and/or clay sculpture, students develop conceptual and expressive skills. Students formulate glazes and fire kilns. Prerequisite: ArtS 2311.

**3313 Ceramics III. (3-3)** Through individualized projects, students develop personal content and expression in their work. Students formulate clay bodies and slips, and investigate experimental firing methods. Prerequisite: ArtS 3312.

**3314 Ceramics IV. (3-3)** Continued development of personal expression through a self-initiated series of works. Students investigate technically complex forming methods. Prerequisite: ArtS 3313.

**3322 Drawing II. (3-3)** Experimentation with techniques and materials to develop perceptual and conceptual skills leading to individual expression in drawings. Prerequisite: ArtS 2321.

**3323 Drawing III. (3-3)** Focuses on the development of a personal visual statement using the human form as subject matter. Interpretive skills are stressed and alternative approaches to generating visual imagery are explored. Prerequisite: ArtS 3322.

**3324 Drawing IV. (3-3)** Emphasizes conceptual skills and critical analysis in the development of individual imagery and aesthetics in drawing. Consistent thematic drawings are required. Prerequisite: ArtS 3323.

**3332 Fibers II. (3-3)** Development of visual and conceptual skills through weaving. Prerequisite: ArtS 2331.

**3333 Fibers III. (3-3)** Development of a personal aesthetic direction in fibers using loom and/or non-loom processes. Prerequisite: ArtS 3332.

**3334 Fibers IV. (3-3)** The conceptual and technical aspects of fibers are developed through experimentation, research and evaluation. Prerequisite: ArtS 3333.

**3342 Metals II. (3-3)** The development of a personal aesthetic and conceptual direction in the metal medium focusing on the relationship between surface and form. Casting is introduced and the exploration of patination and surface coloration continues. Prerequisite: ArtS 2341.

**3343 Metals III. (3-3)** Emphasis on a personal conceptual direction in the solution of formal problems using complex construction and fabrication processes. Prerequisite: ArtS 3342.

**3344 Metals IV. (3-3)** An introduction to the ductile qualities of the metal medium through advanced forming and raising processes. In a series of artworks, students develop a personal aesthetic. Prerequisite: ArtS 3343.

**3352 Painting II. (3-3)** A series of projects synthesizing the elements and principles of pictorial composition which encourage individual creative solutions. Prerequisite: ArtS 2351.

**3353 Painting III. (3-3)** Development of personal imagery in painting through individualized projects. Prerequisite: ArtS 3352.

**3354 Painting IV. (3-3)** The conceptual and technical aspects of painting are developed through experimentation, research and evaluation. Prerequisite: ArtS 3353.

**3362 Fine Art Photography. (3-3)** A black and white photography course with emphasis on developing visual, conceptual and technical aspects of photography using camera knowledge, chemistry, and alternative printing methods. Prerequisites: Tech 1450, ArtF 1301, ArtF 1302, and art major or minor classification.

**3372 Printmaking II. (3-3)** The student will focus on one or more of the basic printmaking techniques. Emphasis placed on further development of visual, conceptual and technical abilities. Prerequisite: ArtS 2371.

**3373 Printmaking III. (3-3)** The student will focus on one or more of the printmaking techniques. Emphasis placed on developing the ability to produce professional editions. Prerequisite: ArtS 3372.

**3374 Printmaking IV. (3-3)** The student will focus on one or more of the printmaking techniques. Emphasis placed on experimental research leading to innovative visual results. Prerequisite: ArtS 3373.

**3382 Sculpture II. (3-3)** Development of a personal aesthetic direction with emphasis on the visual, conceptual and technical aspects of sculptural form. Prerequisite: ArtS 2381.

**3383 Sculpture III. (3-3)** Emphasizes personal aesthetic direction through the development of advanced metal casting and fabricating techniques. Prerequisite: ArtS 338.

**3384 Sculpture IV. (3-3)** Focuses on developing conceptual and technical skills through the creation of large-scale sculpture. Prerequisite: ArtS 3383.

**3392 Watercolor II. (3-3)** Continues the development of creative and technical skills through a series of structured watercolor projects. Prerequisite: ArtS 2391.

**3393 Watercolor III. (3-3)** Using a variety of media, the student is encouraged to develop personal imagery through individualized projects. Prerequisite: ArtS 3392.

**3394 Watercolor IV. (3-3)** A variety of water-base media is used in individualized projects to further develop personal imagery. Prerequisite: ArtS 3393.

**4308 Special Topics (3-3)** A category of courses designed to meet special needs and address issues in studio art ranging from traditional to non-traditional techniques.

**4315 Ceramics V. (3-3)** Development of the conceptual and technical aspects of ceramics through experimentation, research and evaluation. Prerequisite: ArtS 3314.

**4316 Ceramics VI. (3-3)** The first half of the Senior Thesis for ceramics majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ArtS 4315.

**4317 Ceramics VII. (3-3)** The second half of the Senior Thesis for ceramics majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ArtS 4316.

**\*4318 Ceramics Special Problems. (3-3)** An advanced level, independent study in ceramics which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 3313.

**4325 Drawing V. (3-3)** Requires students to pursue a personal conceptual direction in drawing and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 4324.

**4326 Drawing VI. (3-3)** The first half of the Senior Thesis for drawing majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ArtS 4325.

**4327 Drawing VII. (3-3)** The second half of the Senior Thesis for drawing majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ArtS 4326.

**\*4328 Drawing Special Problems. (3-3)** An advanced level, independent study in drawing which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 3323.

**4335 Fibers V. (3-3) Requires students to pursue a personal and conceptual direction in fibers and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: Fibers IV, ArtS 3334.**

**4336 Fibers VI. (3-3)** The first half of the Senior Thesis for fibers majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ArtS 4335.

**4337 Fibers VII. (3-3)** The second half of the Senior Thesis for fibers majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ArtS 4336.

**\*4338 Fibers Special Problems. (3-3)** An advanced level, independent study in fibers which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 3333.

**4345 Metals V. (3-3)** Focusing on the conceptual and technical aspects of the metal medium through experimentation, research and evaluation. Requires students to pursue a personal and conceptual direction and to produce a consistent body of artwork. Prerequisite: ArtS 3344.

**4346 Metals VI. (3-3)** The first half of the Senior Thesis for metals majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ArtS 3345.

**4347 Metals VII. (3-3)** The second half of the Senior Thesis for metals majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ArtS 4346.

**\*4348 Metals Special Problems. (3-3)** An advanced level, independent study in metals which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 3343.

**4355 Painting V. (3-3)** Requires students to pursue a personal conceptual direction in painting and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 3354.

**4356 Painting VI. (3-3)** The first half of the Senior Thesis for painting majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ArtS 4355.

**4357 Painting VII. (3-3)** The second half of the Senior Thesis for painting majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ArtS 4356.

**\*4358 Painting Special Problems. (3-3)** An advanced level, independent study in painting which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisites: ArtS 3353.

**4365 Fine Art Photography. (3-3)** This course introduces students to the aesthetics of current digital imaging techniques including new digital cameras, scanning equipment, Macintosh computers, image-manipulation programs, and printing devices. Prerequisites: Tech 1450, ArtF 1301, ArtF 1302, and art major or minor classification.

**4366 Fine Art Photography. (3-3)** The first half of the Senior Thesis for photography majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of work. Prerequisites: Tech 1450, ArtF 1301, ArtF 1302, and art major or minor classification.

**4367 Fine Art Photography. (3-3)** The second half of the Senior Thesis for photography majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisites: Tech 1450, ArtF 1301, ArtF 1302, and art major or minor classification.

**\*4368 Fine Art Photography Special Problems. (3-3)** An advanced level, independent study in photography which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisites: Tech 1450, ArtF 1301, ArtF 1302, and art major or minor classification.

**4375 Printmaking V. (3-3)** Requires students to pursue personal conceptual direction in a major printmaking technique and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 3374.

**4376 Printmaking VI. (3-3)** The first half of the Senior Thesis for printmaking majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ArtS 4375.

**4377 Printmaking VII. (3-3)** The second half of the Senior Thesis for printmaking majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ArtS 4376.

**\*4378 Printmaking Special Problems. (3-3)** An advanced level, independent study in printmaking which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 3373.

**4385 Sculpture V. (3-3)** The conceptual and technical aspects of sculpture are developed through experimentation, research and evaluation. Requires students to pursue a personal and conceptual direction and to produce a consistent body of artwork. Prerequisite: ArtS 3384.

**4386 Sculpture VI.** The first half of the Senior Thesis for sculpture majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ArtS 3385.

**4387 Sculpture VII. (3-3)** The second half of the Senior Thesis for sculpture majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ArtS 4386.

**\*4388 Sculpture Special Problems. (3-3)** An advanced level, independent study in sculpture which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 3383.

**4395 Watercolor V. (3-3)** The conceptual and technical aspects of painting with water-base media are developed through experimentation, research and evaluation. Prerequisite: ArtS 3394.

**4396 Watercolor VI. (3-3)** The first half of the Senior Thesis for watercolor majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ArtS 3395.

**4397 Watercolor VII. (3-3)** The second half of the Senior Thesis for watercolor majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ArtS 4396.

**\*4398 Watercolor Special Problems. (3-3)** An advanced level, independent study in watercolor which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ArtS 3393.

## Courses in Art Theory and Practice (ArtT)

(WI) **2371 Fundamentals of Art Theory and Practice. (3-3)** A survey and analysis of the theories and practices of art learning. Topics include: philosophy; history and theory of art learning; technology; artistic development; learning theories; assessment tools; program development; presentations and current realities; trends and issues.

**3370 Art Theory and Practice. (3-3)** Introduces the theories and practices of children's art learning for the non-art major.

(WI) **3371 Introduction to Art Criticism. (3-3)** An introduction to the theories and practices of art criticism and art history. Topics include: art historical/criticism content and philosophies; presentation planning and methodologies; new technologies and resources.

(WI) **3372 Art Theory and Practice for Children. (3-3)** A survey and analysis of the theories and practices of teaching art to children. Topics include artistic development, art programming, content, philosophies, methodologies, objectives and assessment. Requires 10 clock hours of field experience in an elementary art learning setting. Prerequisite: ArtT 2371.

**3373 Art Theory and Practice for Adolescents. (3-3)** The theories and practices of adolescent art learning. Topics include: learning environments; artistic development; presentation methodologies, objectives and assessment; and other current topics. Requires 10 clock hours of field experience in a secondary school art setting. Prerequisites: ArtT 2371, ArtT 3372 (All level certification only). Recommend concurrent enrollment in ArtT 3374.

**3374 Learning and Digital Media. (3-3)** The theories and practices of using electronic media for the creation of art as well as for the enhancement of the art learning process. Prerequisites: ArtT 2371, ArtT 3372 (All Level Certification only). Recommend concurrent enrollment in ArtT 3373.

(WI) **4375 Art Criticism, History, and Aesthetics. (3-3)** A survey and in-depth analysis of the philosophies and structures of art criticism, art history, and aesthetics, as well as contemporary methodologies for analyzing, interpreting and judging works of art. Prerequisites: ArtT 2371, ArtT 3372(All Level Certification only), ArtT 3373 and ArtT 3374 or consent of instructor required.

**\*(WI) 4376 Special Problems in Art Theory and Practice. (3-3)** Individualized study focusing on personal skill and knowledge development related to art learning experiences. Research will include a review of literature, a design for practical experience, and documentation of results and conclusions.

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\* May be repeated with different emphases for additional credit.

## Department of Mass Communication

*Chair and Associate Professor-Blevens. Professors-Henderson, McBride, Nelson, Peirce, P.C. Renfro. Associate Professors-Fluker, Marron, R.B. Renfro. Assistant Professors-England, Panol. Rao, Walsh. Instructor- Plaster. Lecturers-Carlson, Rice, Shrader.*

The Department of Mass Communication offers a curriculum that introduces students to the broad framework of mass communication, emphasizing what is common and fundamental to advertising, broadcasting, print journalism and public relations.

The mission of the department is to produce graduates who understand mass communication and the role of mass media as social institutions, and who are capable of applying general theoretical concepts and technical skills to work successfully in the communication professions. Students may earn a bachelor of arts in mass communication—advertising, mass communication—broadcasting, mass communication—general, mass communication—print journalism or mass communication—public relations. A master of arts program is also available for those who have bachelor degrees(see SWT's graduate catalog).

Students may gain experience by working in student publications and electronic media or through internships outside the department. They also have the opportunity to participate in intercollegiate competitions.

To earn a Bachelor of Arts degree in mass communication, students must complete 128 semester hours, which include the university's general studies requirements plus 33 hours in Mass Communication and an 18- to 24-hour minor outside the department (see list on pg. 70). A passing grade in the department's Grammar, Spelling and Punctuation test(see below) must also be earned. Also, a grade of at least C must be earned in all Mass Communication core courses and courses that serve as prerequisites. No more than 39 hours of Mass Communication may be counted toward degree requirements.

Because 21 hours of the 33-hour Mass Communication major must be advanced(junior-senior) hours, community college transfer students may apply no more than 12 semester credit hours of mass communication transfer courses to their degree. Transfer students from four-year institutions may apply no more than 18 semester credit hours of mass communication transfer courses to their degree.

For more information, call the department's Academic Services Center at 512-245-3612 or visit the Center in Old Main 118, or visit the department's web site ([www.finearts.swt.edu/MassComm/masscomm.html](http://www.finearts.swt.edu/MassComm/masscomm.html)).

### Other requirements

1. General Studies (core curriculum) options should be discussed with an academic adviser. Requirements and choices are listed on pg. 60.
2. Requirements for students seeking to become public school teachers, as mandated by the state, differ slightly from those required for other mass communication students. Students should consult an academic adviser in the School of Education in order to meet both university degree and state teacher certification requirements.
3. The Bachelor of Arts degree requires sophomore literature, college-level modern language and math/science/logic courses in addition to those required by General Studies (see pg. 60).
4. Until students pass the Grammar, Spelling and Punctuation test (GSP) given by the SWT Testing, Research-Support and Evaluation Center they are pre-majors and may not take courses indicated by an asterisk. The test is administered by the Testing Center at 1 and 3 p.m. most Mondays and the test fee is \$25. Because the GSP may be taken only three times, remedial help is available and recommended. Contact the Mass Communication Academic Services Center for more information. Students with disabilities should call SWT's Office of Disability Services (512-245-3451) to inquire about accommodations in taking the test.

Mass Communication students who have not passed the GSP are placed in a pre-major status. Those who started their college work at SWT may accumulate no more than 15 hours of Mass Communication courses without passing the GSP. Transfer students may take no more than 6 hours of Mass Communication at SWT without passing the GSP.

### Areas of Study within the Mass Communication Major

All students must earn a C in each of six core courses in Mass Communication. Four of these courses constitute the lower division core. They are MC 1301—Introduction to Mass Communication, MC 1313—Writing for the Mass Media, MC 2319—Visual Communication and MC 2374—Information Gathering and Analysis. The two-course upper-division core includes MC 4301 - Mass Communication Law and Ethics, and MC 4302 - History of Mass Media.

In addition to the core courses, the department offers courses to prepare students for work within all areas of mass communication. Students may concentrate their study in Advertising, Broadcasting, Print Journalism or Public Relations, or elect a general Mass Communication course of study. Students must complete an additional 15 hours from one of these areas. They should see a mass communication faculty member or the department's Academic Services Center for assistance in planning their programs in these areas of study.

**General Mass Communication:** MC 3355, MC 3360, MC 3383, MC 4305, plus three hours of Mass Communication electives.

**Advertising:** MC 3367, MC 4307, plus nine hours selected from MC 3368, MC 3372, MC 3373, MC 3379, MC 4316.

**Broadcasting:** MC 3308, MC 3309, MC 3310, MC 3312, MC 3394.

**Print Journalism:** MC 3320, MC 3360, MC 3383, plus six hours of Mass Communication electives.

**Public Relations:** MC 3343, MC 3360, MC 3383, MC 4313, MC 4320.

Majors may take up to six hours of Mass Communication courses in addition to the core and area of study requirements.

### **Minor in Mass Communication**

Any student seeking a bachelor's degree may minor in Mass Communication. Requirements are MC 3343 - Introduction to Public Relations, MC 3355 - Mass Media & Society, MC 3367 - Advertising and MC 4302 - History of Mass Media, plus six hours selected from MC 1301, MC 3375, MC 4316A, MC 4356C, MC 4376A, MC 4382A, MC 4382B, MC 4382C, MC 4382D.

Students who wish to become certified to teach journalism may minor in Mass Communication under the Option II plan by taking 18 hours of Mass Communication: 1301, 1313, 2374, 3383, 3390 and 4301.



**Bachelor of Arts**  
**Major in Mass Communication**  
**(Minimum required: 128-129 semester hours)**

<b>Freshman Year</b>	<b>Hours</b>
Speech Communication 1310 .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
History 1310, 1320 .....	6
Mass Communication 1301, 1313 .....	6
Modern Language 1410, 1420 .....	8
Philosophy 1305 .....	3
Phy. Fitness Perspective (one course) .....	1

<b>Sophomore Year</b>	<b>Hours</b>
English (Literature).....	6
Social Science .....	3
Mass Communication .....	9
Mathematics (1315 or higher) .....	3
Modern Language 2310, 2320.....	6
Political Science 2310, 2320 .....	6
Phy. Fitness Perspective (one course).....	1

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<b>Junior Year</b>	<b>Hours</b>
Elective .....	3
Mass Communication .....	9
Minor .....	9
Natural Science.....	7-8
Math/Science/Logic .....	3

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Senior Year	Hours
Capstone Course (selected from approved Mass Communication courses) .....	3
Mass Communication 4301, 4302 .....	6
Minor .....	9
Minor(or advanced Electives) .....	6
Art,Dance,Music or Theatre 3313 .....	3
Advanced elective .....	3

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## Courses in Mass Communication (MC)

**1301 (COMM 1307) Introduction to Mass Communication. (3-0)** A survey of the mass media and other areas of mass communication designed to acquaint the student with the field of communication and what it offers. The course also considers historical perspectives of mass communication.

(WI) **\*1313 (COMM 2311) Writing for the Mass Media. (2-2)** An introduction to the major forms of writing for the mass media: advertising, broadcasting, print journalism and public relations. Prerequisite: passing score on the GSP test and typing skill.

**2319 Visual Communication. (3-0)** A study of the principles, theories and language of graphic and visual communication, with emphasis on evaluating and using images in mass media rather than on creating images.

**\*2374 Information Gathering and Analysis. (3-0)** Study of techniques for locating, retrieving, assessing and verifying information from a multitude of sources to be used in mass communication. Interviewing, fact verification, use of libraries and computerized data bases, access to government proceedings and documents and interpreting statistics.

(WI) **\*3308 Broadcast Newswriting. (2-2)** The study and practice of writing news copy in broadcast style: simply, clearly and directly. Prerequisite: Mass Communication 1313.

**3309 Broadcast Production. (2-4)** The basics of radio and television production with emphasis on techniques used in commercial promotion and news production. Lab requirements include a regular air-shift on the campus radio station with hours arranged and structured group meetings.

(WI) **\*3310 Radio News. (2-4)** The standard theory and practice of radio news production including writing copy to be read aloud and incorporation of sound in news stories. Students will deliver newscasts for the campus radio station; assignments may include night or weekend work. Prerequisites: Mass Communication 3308 and 3309.

(WI) **\*3312 Television News. (1-7)** Standard theory and practice of television news production, including writing copy to match pictures and incorporating video and sound in TV news stories. Students will work on the campus cable television news program. Lab assignments may include night or weekend work. Prerequisites: Mass Communication 3308, 3309.

(WI) **\*3320 Advanced Media Reporting and Writing. (2-2)** Integrating writing and reporting skills to produce in-depth stories using multiple sources of information. Techniques of investigative reporting, social science reporting and feature writing will be covered, with emphasis on understanding the appropriate approach to a story. Prerequisites: Mass Communication 1313 and 2374.

(WI) **\*3323 Magazine Article Writing. (3-0)** Application of reporting and writing skills to the marketing of free-lance magazine articles. Emphasis on analysis of magazines and production of properly targeted articles. Prerequisites: Mass Communication 1313, 2374 and 3320.

**\*3324 Magazine Editing. (3-0)** Historical development of magazines, with emphasis on changes in the industry. Developing magazine concepts, issue planning, budgeting and staffing needs. Prerequisite: Lower division core.

**3343 Introduction to Public Relations. (3-0)** The introductory course for the public relations sequence. Explores the functions of public relations and its role in corporations, companies, government offices, non-profit organizations and public relations agencies.

**\*3350 Advanced Photography. (2-3)** Practical photography with emphasis on craftsmanship, theory and visual communication, including experience in a variety of professional and technical areas. Prerequisite: Consent of instructor.

**3355 Mass Media and Society. (3-0)** An examination of the roles of the mass media in American society, including an analysis of the philosophical basis of media structure; mass media as business; media effects on public issues, morals and tastes; and other contemporary issues.

**\*3360 Research Methods in Mass Communication. (3-0)** Study of the principles, techniques and problems of research in print, broadcasting, advertising and public relations. Prerequisite: Mass Communication 2374.

**3367 Advertising. (3-0)** Survey of advertising, including history, role and responsibility and impact of technology. Key topics will be research, media, creative, sales, promotion and complete campaigns.

(WI) **\*3368 Advertising Copy for Print. (2-2)** Study of writing and producing print advertisements for different clients. Emphasis on creative process, from connecting ideas to communication and persuasion. Prerequisites: Mass Communication 1313 and 3367.

**\*3372 Advertising Media Planning. (3-0)** Study of planning and buying space and time in media to reach target audiences. Attention given to media characteristics, scheduling and testing. Prerequisites: Mass Communication 1313 and 3367.

(WI) **\*3373 Broadcast Commercial and Promotion Writing. (2-2)** Writing and producing radio scripts and television storyboards for commercial messages. Study will include audiences, programming, research and copytesting, and regulations. Spot announcements will be produced for class. Prerequisites: Mass Communication 1313 and 3367.

**3375 Broadcasting and Cable Programming. (3-0)** Study of the principles and strategies of winning audiences for television, radio and cable broadcasting.

**\*3379 Advertising and Public Relations Management. (3-0)** Study of managerial problems in advertising and public relations programs. Case study approach to setting goals, developing strategy, budgeting and working in a client-agency relationship. Prerequisites: Mass Communication 1313, and 3343 or 3367.

(WI) **\*3383 Editing for Clear Communication. (2-2)** A course designed to help writers divorce themselves from the creative process and function as editors of their own work and the work of others, focusing on meaning, accuracy, logic, language, sense, organization, style, and form appropriate to audience and medium. Prerequisites: Mass Communication 1313 and 2374.

**\*3386 Print Journalism Management. (3-0)** Lecture/discussion course integrating organization theory, personnel management and marketing concepts, and applying them to analysis of how publications relate to their internal and external publics. Prerequisite: Lower division core or consent of instructor.

**\*3390 Publication Design and Production. (2-2)** Study of design principles and production skills required to create printed material. Students will design publications and solve production problems that arise in executing the design. Prerequisite: Mass Communication 2319.

**\*3394 Broadcast Management. (3-0)** The study of the structure and role of broadcast management, community responsibility, sales and federal regulation of broadcasting.

**\*4111 Independent Study: Advertising, Broadcasting, Print Journalism, Public Relations. (0-4)** Students will work under the supervision of a faculty member in a project requiring at least 60 clock hours. Prerequisite: Consent of instructor.

**\*4211 Independent Study: Advertising, Broadcasting, Print Journalism, Public Relations. (0-8)** Students will work under the supervision of a faculty member in a project requiring at least 120 clock hours. Prerequisite: Consent of instructor.

**\*4301 Mass Communication Law and Ethics. (3-0)** A study of law governing print, advertising, broadcasting and public relations and the ethics that guide personal and institutional decision making in mass communication. Prerequisite: 90 semester hours and completion of lower division core.

**4302 History of Mass Media. (3-0)** Students will study the development of mass media, advertising and public relations in the United State from 1690 to the present.. Prerequisite: 90 semester hours and completion of lower division core.

(WI) **\*4305 Theories of Mass Communication. (3-0)** A study of the predominant theories of communication, including mass media effects, functions and controls. Prerequisite: 90 semester hours.

(WI) **\*4307 Advertising Campaigns. (2-2)** Development, coordination and evaluation of complete advertising campaigns for specific clients. Students will conduct market research, formulate objectives and strategies and recommend media plans. Prerequisite: 12 hours of upper division advertising or consent of instructor.

**\*4311 Independent Study: Advertising, Broadcasting, Print Journalism, Public Relations. (0-12)** Students will work under the supervision of a faculty member in a project requiring at least 180 clock hours. Prerequisite: Consent of instructor.

(WI) **\*4313 Writing for Public Relations. (2-2)** An examination and application of the writing skills required in public relations. Competency is developed in writing news releases, feature articles, newsletters, advertising copy, magazine articles and brochure copy. Prerequisites: Mass Communication 1313, 2374 and 3343.

**\*4316 Special Topics in Advertising. (3-0)** Intensive look at special advertising topics. May be retaken for credit when topic changes. Prerequisite: Mass Communication 3367 or consent of instructor for all topics.

**4316A International Advertising. (3-0)** Overview of international marketing and advertising; problems and opportunities of a global economy.

**\*4316B Direct Marketing/Direct Response Advertising. (3-0)** Course will examine direct marketing's one-on-one relationship with prospects and customers, using data base of names.

**\*4316C Advertising Agencies/Client Practice. (3-0)** Study of how agencies work directly with key company contacts.

**\*4316D Advertising Media Sales. (3-0)** An overview of advertising media selling and salesmanship, sales strategies, sales management, and case histories designed to acquaint students with a vital function of the business.

(WI) **\*4320 Public Relations Campaigns. (3-0)** A comprehensive study of effective public relations. Students learn the professional approach to the use of public relations and evaluate its function, its value, and its limitations. Also, students study the publicist's use of the media in obtaining publicity. Prerequisite: Mass Communication 3360 and 4313.

**\*4330 Internship. (0-15)** Actual job experience as a beginning Mass Communication intern. A student enrolled in internship must work a minimum of 15 hours a week during a long term or 30 hours a week during a summer session. Students must have a 3.0 grade-point average in Mass Communication and be at least a junior. Prerequisites: Consent of a sequence coordinator and 90 semester credit hours.

**\*4336 Special Topics in Broadcasting. (3-0)** Intensive look at special topics in broadcasting. May be retaken for credit when topic changes.

(WI) **\*4336A Sports Broadcasting. (3-0)** This course examines the role of the sportscaster, covering the evolution of sportscasting and providing instruction in features, play-by-play, and color commentary.

(WI) **\*4336B Documentaries. (3-0)** A course in reporting and production of comprehensive public affairs and feature stories for radio and television. Prerequisite: Mass Communication 3310 and 3312, or consent of the instructor.

(WI) **\*4336C Broadcast Promotion. (3-0)** A study of the strategies and execution of on-air and off-air promotion of news and other broadcast and cable programming. Prerequisite: Mass Communication 3373 or consent of instructor.

**\*4356 Special Topics in Reporting (3-0)** Intensive look at special topics in reporting. May be retaken for credit when topic changes.

(WI) **\*4356A Science Writing. (3-0)** A lecture-discussion course, which integrates consideration of the culture of scientific research, the public relations of scientific organizations and the handling of scientific news with varied journalistic writing projects. Prerequisite: Mass Communication 3320 or consent of instructor.

(WI) **\*4356B Editorials, Columns, and Reviews. (3-0)** The study and writing of newspaper editorials, columns, and book, film and music reviews. Sports, political and other types of columns will be undertaken. Prerequisite: Mass Communication 3320 or consent of instructor.

(WI) **\*4356C Community News. (3-0)** A lecture-discussion course dealing with the coverage of local economy and business, government and social service functions as well as political activities like elections and lobbying efforts.

(WI) **\*4356D Sports as News. (3-0)** Problems in print and radio-television media coverage of athletic events. Prerequisite: Lower division core

**\*4376 Special Topics in Public Relations. (3-0)** Intensive look at special topics in public relations. May be retaken for credit when topic changes.

**\*4376A Persuasion and Mass Communication. (3-0)** Study of the theories, applications, tools and ethics of persuasion through the mass media. Cases will be examined in areas including public relations, advertising, promotion and other persuasive vehicles. The emphasis will be on mass rather than interpersonal persuasion.

**\*4376B Specialized Areas of Public Relations. (3-0)** An examination of the various specialties in public relations practice, including agency, corporation, not-for-profit, marketing support and other areas of the field.

**\*4376C Public Relations Case Studies. (3-0)** A study of the role and function of public relations. A full range of public relations cases is explored, and each case is analyzed and evaluated to establish the effectiveness of public relations' involvement. Prerequisite: Mass Communication 1313 and 3343.

**4382 Special Topics in Mass Communication. (3-0)** Intensive look at special topics in Mass Communication. May be repeated for credit when the topic changes.

**4382A Special Topics in Mass Communication: Multiculturalism (3-0)** A study of the literature examining multiculturalism, pluralism, racism, bias, objectivity, and deviance in Mass Media, examining social process and Mass Media's role in those processes.

**4382B Special Topics in Mass Communication: International Communication. (3-0)** A study of media systems worldwide in different socioeconomic contexts and an examination of patterns of international information flow.

**4382C Women and Minorities in the Media. (3-0)** Analysis of the images of women and minorities in the media and their status as media professionals. Includes study of the alternative media.

**4382D Literature of Mass Communication. (3-0)** A lecture-discussion course designed to introduce students to some of the major works in journalism and mass communication and to some of the major writers in the field. Prerequisites: 3.0 average in Mass Communication or consent of instructor.

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\*a passing score on the GSP is required for enrollment in this course.

## Department of Music

*Chair and Professor-Brand. Professors-Belisle, Gonzalez, Hurt, Laumer, Mosello, Neely, Pino, Riepe, Schmidt, Skinner, Stansberry, Thomas, Whalin, Wolverton, Woolsey. Associate Professors-Brunner, Gangel, Hager, Hudson, Johnson, Ledbetter, Sergi, Winking. Assistant Professors-Fink, Hudiburg, Polk, Rodriguez, Webb, Instructors-Davidson, D. Hudson, Lopez, Mills, Smith, Stephenson. Lecturer-Ellis, Hehmsoth, Mazak, Menconi, Petkovich, Radmer, Robinson, Scanlon, Stogner.*

The Department of Music prepares individuals for careers in music and music education and gives all students the opportunity to develop musical skills and cultural understanding. Courses are offered in music education, history, literature, theory, composition, and sound recording. All university students, both music majors and non-music majors, are encouraged to participate in performing ensembles. However, due to the limited availability of private applied music instruction, as well as certain other music classes, the Department may use the following criteria for determining students' access to music instruction:

1. studio/class space availability.
2. a student's overall musical talent, musical achievement, and performance/ teaching potential as determined by audition; and/or
3. academic standing as represented by GPA and other appropriate indicators.

The department offers the Bachelor of Music (BM) with majors in music education (all-level or secondary certification), performance, and sound recording technology. Students entering the music major program must audition and take a music theory examination. Students interested in sound recording technology must complete a separate application.

Music education graduates work as band directors, choir directors, orchestra directors, or general music teachers. Performance graduates perform, establish their own teaching studios, attend graduate school, or use the music degree as a foundation for their careers. Sound recording graduates work as sound recording engineers, producers, and technicians in the recording and entertainment industries.

For more information, call 512-245-2651 or visit the Music Building 101.

### Admission Requirements

Freshman and Transfer Admission:

Admission to the Department of Music is contingent on admission to the University. In addition to meeting University admission criteria, students intending to major in music must audition on their principal instrument or voice. Admission to the department will be based upon the audition and the available space in each studio. Moreover, a successful audition does not automatically ensure acceptance to the University. Prospective music majors will not be permitted to enroll in applied music and other music majors classes until successfully passing the audition.

Auditions are held periodically throughout the year for enrollment the following academic year. (Entering students intending to study composition must submit a portfolio of original compositions; audio tapes are encouraged.) Those prospective music students unable to audition in person due to geographic distance from campus may submit an audio or video cassette recording representative of their performing abilities. Deadline for tape submission is April 1 (Fall admission) or November 1 (Spring admission). Please check with area coordinator in the department for audition requirements.

### Departmental Policies

Those planning careers in music must have a high level of musical skill and understanding. To help evaluate musical skills for counseling and placement purposes, the Department of Music requires all music majors to take several examinations.

**Music Theory Examinations.** New music majors (freshman and transfers) must take a diagnostic examination in music theory to be assigned to the appropriate music theory class.

**Applied Music Examinations.** Music majors and minors enrolled for applied music will perform before a faculty committee at the end of each semester. Students who fail to appear for the scheduled examination will receive F for the course. In case of illness or emergency, a grade of I will be given and the examination will be re-scheduled at the beginning of the next term.

**Piano Proficiency.** All music performance and certification majors must pass a piano proficiency examination. Students seeking teacher certification must do so before student teaching. Students majoring in performance must pass their piano proficiency before graduating. Piano Proficiency requirements are available on request.

**Upper Level Competency Exam.** The upper level competency exam helps music majors select and pursue the most suitable career. On completion of four long semesters of private lessons in a major performance area, the total musical performance, music, and academic records are reviewed by the music faculty. This review is completed before the processing of a degree outline and before the student enrolls for 3000 level courses in applied music. The upper level competency exam is offered at the end of each long semester. Specific information is available on request.

Transfer students with four or more semesters of applied study should complete the exam at the end of the first semester of applied music study at SWT, unless additional remediation is suggested by the studio teacher.

Students who are not recommended for junior standing (3000 level courses) in the major applied music area must continue to enroll for sophomore (2000 level) lessons in the area of performance study affected until the proficiency level is acquired. Normally, students who fail the upper level competency exam a second time will not be eligible to enroll as music majors.

**Senior Recital.** A senior recital is required for undergraduate degree programs except Sound Recording Technology. The senior recital may not be presented until the student is enrolled in senior level applied music (4000 level work).

**Recital Attendance Requirements.** Each semester, various recitals and concerts are presented by students, faculty, and visiting artists. Attendance at such programs is an indispensable part of a quality musical education. All music majors must enroll in Departmental Recital and attend eight of the weekly Departmental Convocation series; also each music major must attend a minimum of eight (8) evening or weekend performances each semester. Each music major must complete this recital attendance requirement for a minimum of seven semesters prior to graduation. In addition, applied music teachers may require attendance at all recitals in the individual performance area of each student.

**Student Teaching Requirements.** Before being allowed to enroll for student teaching, music students must have: (1) completed all coursework for the degree; (2) presented the senior recital; and (3) passed the piano proficiency examination.

**Ensemble Requirements.** All music majors must participate in the appropriate major ensemble(s) (band, choir or orchestra) each semester. At the discretion of the primary applied teacher, majors and minors may also participate in small ensembles. Music majors may contact the Department of Music for a list of ensembles fulfilling the ensemble and degree program requirements.

## **SWT Ensembles**

**Bobcat Marching Band.** Meets during the fall semester. Auditions open to all SWT students, regardless of major. Performs at home football games, pep rallies, and usually one out-of-town game (one credit per semester).

**Symphonic Band.** Meets during the spring semester. A select concert-touring band of approximately 60-70 members chosen by audition from the entire student body (one credit per semester).

**Wind Ensemble.** Meets during the fall and spring semesters. A select concert-touring ensemble of approximately 40-45 members chosen by audition from the entire University student body (one credit per semester).

**Concert Band.** Meets during the spring semester. Open to all university students with chair placement determined by audition (one credit per semester).

**Basketball Band.** Meets during the spring semester. Open to all university students. Performs at all home basketball games (one credit per semester).

**University Chorale.** A select concert-touring choir of approximately 45 to 55 members chosen by audition from the entire university student body (one credit per semester).

**Women's Choir.** A select concert-touring choir of approximately 30 members chosen by audition from the entire university student body (one credit per semester).

**Chamber Singers.** A select ensemble of approximately 24 singers chosen by audition from the entire student body. Works sung by the Chamber Singers are primarily madrigals and chanson from the Renaissance era (one credit per semester).

**Concert Choir.** A select choir designed for undergraduate singers chosen by audition from the entire student body (one credit per semester).

**Gospel Expressions.** This group is open to all students who enjoy traditional and contemporary gospel music. With approximately 40 members, Gospel Expressions performs numerous programs throughout Texas each year (no credit).

**Symphony Orchestra.** Meets during the fall and spring semesters. Open to all qualified university students by audition. The repertory for this group consists of standard orchestra literature, as well as oratorio, concerto, and opera accompaniments (one credit per semester).

**Jazz Bands.** The Jazz Bands play special arrangements of contemporary popular music in various styles. Open to all qualified university students by audition (one credit per semester).

**Salsa Del Rio.** A performing ensemble specializing in Latin and South American music.

**Mariachi de SWT.** A performing ensemble specializing in Mexican folk music.

**Afro/Cuban Drum Circle.** A class that focuses on the performance of ethnic percussion as well as learning about instruments and dance rhythms of Latin American and Africa.

**Mysterium for Modern Music.** This group of instrumentalists and vocalists will perform exclusively 20th century music in all styles and media (one credit per semester).

**Opera Workshop.** Gives singers opportunities to participate in performance of opera and to learn techniques for operatic acting and staging. A major performance with orchestra is scheduled annually (one credit per semester).

**Flute Ensemble.** A performing ensemble of music majors and non-majors who are also enrolled for private flute lessons. Admission is by approval of the director (one credit per semester).

**Trumpet Ensemble.** A performing ensemble of music majors and non-majors who are also enrolled for private trumpet lessons. Admission is by approval of the director (one credit per semester).

**Horn Ensemble.** A performing ensemble of music majors and non-majors who are also enrolled for private horn lessons. Admission is by approval of the director (one credit per semester).

**Percussion Ensemble.** A performing ensemble for serious percussion students. Membership is determined by audition or conference with the director (one credit per semester).

**Panorama Steel Drum Band.** A performing ensemble specializing in Caribbean steel drum band music.

**Trombone Ensemble.** A performing group of music majors and non-majors. Admission by consent of the director (one credit per semester).

**Piano Ensemble.** A reading and coaching ensemble open to piano performance and pedagogy majors with the approval of the instructor (one credit per semester).

Other brass, woodwind, and string ensembles and chamber music are available most semesters. Admission by consent of the faculty member responsible for each group (one credit per semester).

## **Bachelor of Music Major in Music (Minimum required: 136-139 semester hours with teaching certification)**

**Notes:**



<b>Freshman Year</b>	<b>Hours</b>
<b>Major performance area</b>	<b>4</b>
Departmental Recital 1000 .....	0
Performance Seminar1.....	0
Ensemble .....	2
Music 1210/1211, 1212/1213.....	8
Secondary performance area2.....	2
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320.....	6
Phy. Fitness Perspective (2 courses).....	2

**Hours**

## 4

Departmental Recital 1000 .....	0
Performance Seminar1.....	0
Ensemble .....	2
Music 1210/1211, 1212/1213.....	8
Secondary performance area2.....	2
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320.....	6
Phy. Fitness Perspective (2 courses).....	2

**Sophomore Year** **Hours**

Major performance area.....	4
Departmental Recital 2000 .....	0
Performance Seminar.....	0
Ensemble .....	2
Music 2260/2261, 2262/2263 .....	8
Music 2203, 2204 .....	4
Music 21414 (Vocal majors) .....	2
Music 2123 Foundations of Music .....	1
Literary Perspective* .....	3
Philosophy 1305 .....	3
Secondary Performance area.....	2
Social Science Perspective* .....	3
Upper Level Competency Exam5 .....	0

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29-31

**Junior Year** **Hours**

Major performance area.....	4
Departmental Recital 3000 .....	0
Performance Seminar.....	0
Ensemble .....	2
Brass, Woodwinds, Percussion, Voice or Strings.....	2
(Instrumental majors) .....	4
Music 3315, 3316 .....	6
Music 3207, 3217 or 3227 .....	4
Music 3253, 3241 .....	4
Music 3220 (Vocal Majors).....	2
Curriculum and Instruction 3310, 3325.....	6

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28-30

<b>Senior Year</b>	<b>Hours</b>
Major performance area.....	2
Departmental Recital 4000 .....	0
Senior Recital 41506 .....	0
Ensemble .....	1
Brass, Woodwinds, Percussion, Voice, or Strings.....	2
(instrumental majors).....	1
Art, Dance, Music, Theatre 3313 .....	3
Curriculum and Instruction 4343 .....	3
MU 3318 <sup>7</sup> .....	3
MU 4234 <sup>7</sup> (instrumental majors) .....	2
MU 4223 <sup>7</sup> (vocal majors).....	2
Reading 3323.....	3
Capstone Course (satisfied by student teaching) .....	0
Education 4681 .....	6

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26-27

<b>Summer Between Freshman and Sophomore Years<sup>3</sup></b>	<b>Hours</b>
Speech Communication 1310 .....	3
Mathematics 1315.....	3
Political Science 2310,2320 .....	6

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**Summer Between the Junior and****Senior Years****Hours**

Natural Science Perspective*.....	7-8
Curriculum and Instruction 4332.....	3

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10-11

\*See listing of course options under General Studies, page 60.

1All students must attend a performance seminar or participate in a studio ensemble each semester enrolled for private lesson instruction. Credit is recommended but not mandatory.

2All music majors must pass a piano proficiency. It is offered at the end of each semester. Band or orchestra emphasis students will study two semesters of piano, one semester each of voice, strings, and percussion, and two semesters each of brass and woodwinds. Choral emphasis students will study four semesters of piano.

3Different Summer School configurations are possible. Please consult with an adviser.

4Vocal majors must study two semesters of diction.

5All music majors must successfully complete the upper level competency exam before enrolling in upper level courses in applied music.

6The senior recital must be completed prior to student teaching. Students must enroll for MU 4150 in order to have a transcript record of the Senior Recital.

7Pending course approval.

**Bachelor of Music****Major in Music**

**(Minimum required: 136-139 semester hours  
with teaching certification)**

**Freshman Year****Hours**

Major performance area.....	4
Departmental Recital 1000 .....	0
Performance Seminar1 .....	0
Ensemble .....	2
Music 1210/1211, 1212/1213 .....	8
Secondary performance area2 .....	2
English 1310, 1320 .....	6
General Studies 1100 .....	1
History 1310, 1320 .....	6
Phy. Fitness Perspective (2 courses).....	2

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**Sophomore Year** **Hours**

Major performance area.....	4
Departmental Recital 2000 .....	0
Performance Seminar or Studio	
Ensemble .....	0
Ensemble .....	2
Secondary performance area2 .....	2
Music 2260/2261, 2262/2263 .....	8
Music 2203, 2204 .....	4
Music 21414 (Vocal Majors).....	2
Music 2123 Foundations of Music .....	1
English (Literature)* .....	3
Philosophy 1305 .....	3
Social Science Perspective* .....	3
Upper Level Competency Exam5 .....	0

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29-31

**Summer Between Freshman and****Sophomore Year3** **Hours**

Speech Communication 1310 .....	3
Mathematics 1315.....	3
Political Science 2310, 2320 .....	6

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<b>Junior Year</b>	<b>Hours</b>
Major performance area.....	2
Departmental Recital 3000 .....	0
Performance Seminar.....	0
Ensemble .....	1
Brass, Woodwinds, Percussion, Voice or Strings (Instrumental Majors).....	4
Music 3220 (Vocal majors) .....	2
Music 3315, 3316 .....	6
Music 3207, 3217 or 3227 .....	4
Music 3241, 3253 .....	4
Curriculum and Instruction 3310, 3325.....	6
MU 1150 <sup>7</sup> .....	1

<b>Senior Year</b>	<b>Hours</b>
Major performance area.....	2
Departmental Recital 4000 .....	0
Performance Seminar.....	0
Ensemble .....	1-2
Senior Recital <sup>6</sup> .....	0
Brass, Woodwinds, Percussion, Voice or Strings.....	2
(Instrumental majors) .....	1
Capstone Course (satisfied by student teaching)	
Curriculum and Instruction 4343.....	3
Reading 3323.....	3
Education 4380, 4381 .....	6
Music 3340, 3269 .....	5
MU 3318 <sup>7</sup> .....	3
MU 4234 <sup>7</sup> (instrumental).....	2
MU 4223 <sup>7</sup> (vocal) .....	2

25-26

<b>Summer Between Sophomore and Junior Years</b>	<b>Hours</b>
Computer Literacy* .....	3
International Perspective*.....	3
Natural Science Perspective*.....	7-8

**Summer Between the Junior and****Senior Years****Hours**

Art, Dance, Music, or Theatre .....	3
Curriculum and Instruction 4332.....	3

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\*See listing of course options for General Studies on page 60.

1All students must attend a performance seminar or participate in a studio ensemble each semester enrolled for private lesson instruction. Credit is recommended but not mandatory.

2All music majors must pass a piano proficiency. It is offered at the end of each semester. Band or orchestra emphasis students will study two semesters of piano, one semester each of voice, strings, and percussion, and two semesters each of brass and woodwinds. Choral emphasis students will study four semesters of piano.

3Different summer school configurations are possible. Please consult an adviser.

4Vocal majors must study two semesters of Diction.

5All music majors must successfully complete the Upper Level Competency Exam before enrolling in upper level courses in applied music.

6The senior recital must be completed prior to student teaching. Students must enroll for MU 4150 in order to have a transcript record of the Senior Recital.

7Pending course approval.

**Bachelor of Music**  
**Major in Music Performance**  
**(Minimum required: 130 semester hours)**

**Freshman Year****Hours**

Major performance area.....	4
Departmental Recital 1000 .....	0
Performance Seminar or Studio	
Ensemble .....	2
Ensemble .....	2
Music 1210/1211, 1212/1213.....	8
Secondary performance area1 .....	2
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Phy. Fitness Perspective (2 courses).....	2

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<b>Sophomore Year</b>	<b>Hours</b>
Major performance area.....	4
Departmental Recital 2000 .....	0
Performance Seminar or Studio	
Ensemble .....	2
Ensemble .....	2
Secondary performance area.....	2
Music 2260/2261, 2262/2263.....	8
Music 2203,2204 .....	4
Music 2141 <sup>3</sup> .....	2
English Literature .....	3
Philosophy 1305 .....	3
Social Science Perspective*.....	3
Upper Level Competency Exam <sup>4</sup> .....	0

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31-33

<b>Junior Year</b>	<b>Hours</b>
Major performance area.....	6
Departmental Recital 3000 .....	0
Performance Seminar or Studio	
Ensemble .....	2
Ensemble .....	2
Music 3315, 3316.....	6
Music 3207, 3217 or 3227.....	4
Music 3220 (Vocal Majors).....	2
Art, Dance, Music, or Theatre 3313 .....	3
Natural Science Perspective*.....	7-8
Junior Recital.....	0

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30-32

<b>Senior Year</b>	
Major performance area.....	8
Departmental Recital 4000 .....	0
Performance Seminar or Studio	
<b>Ensemble</b> .....	<b>2</b>
Ensemble .....	2
Music (Choose 6 hrs. from Mu 4330,	
4332, 4334, 4336.....)	6
Music 4150 (Senior Recital).....	1
Music 4280 (Senior Research Project) .....	2
Piano Literature (Piano majors).....	6
International Perspective*.....	3

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24-30

<b>Summer Between Freshman and Sophomore Year<sup>2</sup></b>	<b>Hours</b>
Speech Communication 1310 .....	3
Mathematics 1315.....	3
Political Science 2310-2320 .....	6

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\*See listing of course options in the catalog under "College of General Studies."

1All music majors must pass a piano proficiency. It is offered at the end of each semester.

2Different summer school configurations are possible. Please consult an adviser.

3Vocal majors must study two semesters of diction. Vocal performance majors must take one year of French or German. Language courses numbered 1420 and above will meet the international perspective requirement.

4All music majors must successfully complete the upper level competency exam before enrolling in upper level courses in applied music.

**Bachelor of Music**  
**Major in Music-Sound Recording Technology**  
**(Minimum required: 128-129 semester hours)**

Admission to the Sound Recording Technology Program is highly competitive and requires a separate application. Enrollment in SRT courses is strictly limited to students who have been admitted to the Sound Recording Technology Program and who are in good academic standing. To be considered for admission to the SRT program, students should file an application with the music department and the Director of Recording Arts early during the Spring semester prior to Fall admission.

In addition to passing the TASP tests in math, reading, and writing, applicants will be selected based on their past academic history, GPA, SAT scores, past recording experiences, and musical abilities.

<b>Freshman Year</b>	<b>Hours</b>
Recording Lab MU 1180* .....	2
Music 1210/1211, 1212/1213 .....	8
MUSP Performance .....	2
Phy. Fitness Perspective (2 courses) .....	2
Math 2417, 2471 .....	8
General Studies 1100 .....	1
Physics 1410 .....	4
Computer Science 1318 .....	3
Computer Science 1108 .....	1

<b>Sophomore Year</b>	<b>Hours</b>
Recording Lab MU 2180* .....	2
Music 2260/2261, 2262/2263 .....	8
MUSP 1108C, 2110C .....	2
Ensemble .....	2
MUSP Performance .....	2
Recording MU 2381, 2382 .....	6
Physics 1420, 3301 .....	7
Technology 2370 .....	3

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<b>Junior Year</b>	<b>Hours</b>
Recording Lab MU 3180* .....	2
Recording MU 3383, 3384 .....	6
MUSP 3112C, 4114C .....	2
English 1320, Literary Perspective .....	6
Technology 3370, 4372 .....	6
Speech Communication 1310 .....	3
History 1320 .....	3
Philosophy 1305 .....	3

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Senior Year	Hours
Recording Lab MU 4180* .....	2
Recording MU 4385 .....	3
<b>Music History 3316</b>	<b>3</b>
Music 3313 .....	3
Jazz History 3375 .....	3
Technology 4374, + 4375 or 4399.....	3
Posi 2310, 2320 .....	6
Social & International Perspectives .....	6

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\*May be repeated once for additional credit.

## Courses in Music (MU)

### (History-Literature-Theory-Conducting)

**\*1180 Recording Lab. (0-2)** Laboratory course for developing the abilities needed in producing state-of-the-art recordings. Repeatable for credit once. Prerequisites: Consent of instructor.

**1210 (MUSI 1216) Aural Learning I. (0-2)** The course materials from Music Theory I as applied through lessons in singing, playing, and music dictation. Prerequisite: Permission of the instructor.

**1211 Music Theory I. (3-0)** A comprehensive study of the materials of counterpoint and harmony. The study is made through listening and observation of the literature; lessons in application include activities in musical writing and analysis. Prerequisite: Permission of the instructor.

**1212 (MUSI 1217) Aural Learning II. (0-2)** The course materials from Music Theory II as applied through lessons in singing, playing, and music dictation. Prerequisites: Music Theory I and Aural Learning I (MU 1210 and 1211).

**1213 Music Theory II. (3-0)** A comprehensive study of the materials of counterpoint and harmony. The study is made through listening and observation of the literature; lessons in application include activities in musical writing and analysis. Prerequisites: Music Theory I and Aural Learning I (MU 1210 and 1211).

**13113 Fundamentals of Music. (3-0)** Introduction to basic music skills for the elementary classroom. Includes practical application of beginning techniques for piano and recorder, as well as teaching techniques for the elementary music class. Intended for majors in elementary education.

**13124 Essential Musicianship. (3-0)** Detailed instruction in fundamentals of music theory, including but not limited to notation, meters, scales, key signatures, intervals, and chords. This course is designed primarily for music majors and minors.

**12123 (MUSI 1104) Foundations of Music. (0-1)** Designed to introduce the student to principles of aesthetics and philosophy, and their practical application as related to music. Required for music education and elementary education/music majors; recommended for music performance majors.

**\*2141 (MUSI 2160 & MUSI 2161) Fundamentals of Diction in Singing. (1-1)** A basic course in the pronunciation of singing in English, French, Italian, Spanish, and German, taught by the several members of the voice faculty with one lecture session and one laboratory period for practical application by students. May be repeated once for credit.

**\*2153 Problems in Music. (1-0)** Study of one or more problems in music. The course are conducted as seminars and are open to students on an individual basis by arrangement with the Chairs of the Department of Music. May be repeated once for credit.

**\*2180 Recording Lab. (0-2)** Laboratory course for developing the abilities needed in producing state-of-the-art recordings. Repeatable for credit once. Prerequisites: Two semesters of MU 1180.

**(WI) 2203, 2204 (MUSI 1208 & MUSI 1209) Survey of Music Literature. (3-0)** A study, through listening to recordings and personal performance, of the characteristic examples of music literature, with emphasis on a greater enjoyment and understanding. The aim of this course is to provide a rich background of experience with music in order that theoretical and applied study may be more meaningful.

**\*2253 Problems in Music. (2-0)** Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Chair of the Department of Music. May be repeated once for credit.

**2260 (MUSI 2216) Aural Learning III. (0-2)** The course material from Music Theory III as applied through lessons in singing, playing, and music dictation. Prerequisites: Music Theory II and Aural Learning II (MU 1212 and 1213).

**2261 Music Theory III. (3-0)** A continuation of the comprehensive approach used in Music Theory I and II, with an emphasis upon traditional forms and harmony using altered chords. Lessons in application include activities in composition and analysis. Prerequisites: Music Theory II and Aural Learning II (MU 1212 and 1213).

**2262 (MUSI 2217) Aural Learning IV. (0-2)** The course materials from Music Theory IV as applied through lessons in singing, playing, and music dictation. Prerequisites: Music Theory III and Aural Learning III (MU 2260 and 2261).

**2263 Music Theory IV. (3-0)** A continuation of the comprehensive approach used in Music Theory I, II, and III, with an emphasis upon traditional forms and harmony, and twentieth century materials. Lessons in application include activities in composition and analysis. Prerequisites: Music Theory III and Aural Learning III (MU 2260 and 2261).

**2310 (MUSI 1303) Guitar Class I. (3-0)** An introductory course primarily for the non-music major. This course offers the opportunity to study tuning, hand positions, chords, accompaniment patterns, strumming and introductory music reading.

**\*2353 Problems in Music. (3-0)** Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Chair of the Department of Music. May be repeated once for credit.

**2381 Recording Industry Operations I. (3-0)** An overview of recording studio and industry-related functions and operations. Prerequisites: Two semesters of MU 1180, concurrent enrollment in MU 2180, and consent of instructor.

**2382 Recording Industry Operations II. (3-0)** A continuation of MU 2381, with particular attention in areas of administrative functions of recording studio operations and business practices. Prerequisites: MU 2381 and concurrent enrollment in MU 2180.

**3050 Junior Recital (0-1).** Preparation and performance of the junior recital for music performance majors.

**\*3180 Recording Lab. (0-2)** Laboratory course for developing the abilities needed in producing state-of-the-art recordings. Repeatable for credit once. Prerequisites: Two semesters of MU 2180.

**3207 Fundamentals of Conducting. (2-1)** The fundamentals of baton technique.

**3217 Instrumental Conducting. (2-1)** An application of the principles of conducting to instrumental music, including score reading and problems of interpretation. Some choral conducting experience will be included. Prerequisite: Music 2262/2263 or permission of instructor.

**\*3220 Introduction to Music Theatre. (2-2)** Techniques for performing and staging musical comedy and opera. Practical experience with University productions.

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\*May be repeated once for additional credit.

1Different summer school configurations are possible. Please consult an adviser.

2All music majors must successfully complete the upper level competency exam before enrolling in upper level courses in applied music

3MU 1311 is appropriate for majors in Elementary Education.

4MU 1312 is intended for music majors and minors.

**3227 Choral Conducting. (2-1)** An application of the principles of conducting choral music, including score reading and problems in interpretation. Some instrumental conducting experience will be included. Prerequisite: Music 2262/2263 or permission of instructor.

**3228 Instrumental Techniques. (2-0)** A study of performance practices, rehearsal techniques, and wind and string literature.

**3234 Jazz Improvisation II. (2-0)** A continuation of MU 3333, with particular attention to developing skills in the use of scales and modes (including major and minor pentatonic scales), modal playing, and jazz nomenclature. Prerequisites: MU 3333 and concurrent enrollment in Jazz Combo.

**3241 A Survey of Ensemble Performance Literature. (3-0)** Detailed consideration of literature of all periods appropriate for performance by performance ensembles. Repertoire selection and performance problems peculiar to small, medium, and large ensembles are discussed.

**3253 Performance Ensemble Techniques. (3-0)** A course designed for performance ensemble conductors. Includes supervision, administration, and rehearsal techniques.

**3255 Musical Instruments for Performing Folk and Traditional Music.**

**(2-1)** Basic performance skills for the recorder, guitar, piano and keyboard percussion instruments. Prerequisite: Music 1311.

**3269 Current Trends in Music II. (3-0)** A study of melodic and harmonic techniques for keyboard percussion instruments. Sight-reading techniques using Sol-Fa. Survey of the folk music of Europe and America. Prerequisite: Music 3340.

**3310 Guitar Class II. (3-0)** Primarily for the non-music major, the course includes the opportunity for development of more advanced techniques in accompaniment, music reading and solo guitar techniques.

**3313 Introduction to Fine Arts. (3-0)** A study of the interrelation of music with art, dance, and theatre. This course may not be repeated for credit by taking Art 3313, Dance 3313, or Theatre 3313.

**(WI) 3315, 3316 History and Analysis of Music. (3-0)** A comprehensive musicianship approach to the study of music from the earliest times to the present using techniques of stylistic and structural analysis. Prerequisite: Music 2203 and 2204, or permission of instructor.

**3321 Piano Literature I. (3-0)** A study of keyboard literature from 1300 through the music of Schubert with emphasis on listening and recognizing the standard masterworks.

**3322 Piano Literature II. (3-0)** A study of keyboard literature from around 1820 through the music of the present with emphasis on listening and knowing the standard piano literature. \*May be repeated once for additional credit.

**3323 Piano Pedagogy. (3-0)** A study of methods of individual piano instruction and a review of current teaching methods.

**3324 Piano Pedagogy II. (3-0)** Technical studies and repertoire for intermediate grades of piano study.

**3325 Music of Russia and East Europe (3-0)** A study of the history of music in Russia and East Europe concentrating on the 19th and 20th centuries.

**3333 Jazz Improvisation. (3-0)** Familiarity with the scales, patterns, backgrounds, and other materials used in improvisation in the jazz idiom.

**3340 Current Trends in Music I. (3-1)** A study of the components of music and their concepts. An emphasis on singing and rhythmic performance skills, and esthetic awareness through listening. Prerequisite: Music 1311 or Music 2123.

**3375 Jazz, Pop, and Rock. (3-0)** Jazz originated in America, free of European influence, and has been of great importance in the development of 20th Century music. This course is designed to allow students to: (1) learn the structure and history of jazz through readings and lecture; (2) understand the contribution of jazz to contemporary music and to their daily lives; (3) experience the chronological development of jazz through recordings and live performance.

**3383 Audio Technology: Microphones and Mixing Techniques (3-0)** Principles and practices of microphone and mixing techniques. Prerequisites: MU 2382 and concurrent enrollment in MU 3180.

**3384 Audio Recording Techniques (3-0)** Audio tape and disc recording and their applications in a variety of settings and genres. Prerequisites: MU 3383 and concurrent enrollment in MU 3180.

**4150 Senior Recital. (0-3)** Preparation and performance of the senior recital for music majors.

**4151 Band Instrument Repair. (2-1)** A one-semester course designed to equip the prospective band director with the skills to make basic repairs on the various musical instruments.

**\*4153 Problems in Music. (1-0)** Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Chair of the Department of Music. May be repeated once for credit.

**\*4180 Recording Lab. (0-2)** Laboratory course for developing the abilities needed in producing state-of-the-art recordings. Repeatable for credit once. Prerequisites: Two semesters of MU 3180.

**\*4253 Problems in Music. (2-0)** Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Chair of the Department of Music. May be repeated once for credit.

**(WI) 4280 Senior Research Project. (2-0)** A study of the student's senior recital literature resulting in a thorough research paper on the theoretical, historical, technical and stylistic aspects of the compositions. This course, taken the semester prior to Music 4150, will constitute the Capstone Course for performance and piano pedagogy majors.

**4310 Guitar Class III: Rock, Country, Blues (3-0). Designed primarily for the non-music major. Continued study of advanced techniques including scales, arpeggios, strumming patterns and advanced accompanying styles. Analysis and performance of musical styles including rock, country and blues. May be repeated for additional credit.**

**4312 Guitar Class IV: Rock, Country, Blues (3-0).** Designed primarily for the non-music major Continued study of advanced techniques including soloing techniques, accompaniment techniques. Detailed analysis of performance styles emphasizing the styles of contemporary performers. May be repeated for additional credit.

**4330 Form and Analysis. (3-0)** Principles of form and analysis developed through the in-depth application of analytical systems to the musical repertoire through the nineteenth century. Prerequisite: MU 2262 and 2263 or consent of the instructor.

**4332 Contemporary Analytic Techniques. (3-0)** Detailed study and analysis of selected compositions from the early twentieth century to the present; analytical projects. Prerequisite: MU 2262 and 2263 or consent of the instructor.

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\*May be repeated once for additional credit.

**4334 Orchestration. (3-0)** Study of the characteristics of individual instruments; writing for various combinations; study of scores of different periods; techniques of instrumentation, arranging, and orchestration; listening to recorded and live performances. Prerequisite: MU 2262 and 2263 or consent of the instructor.

**4336 Eighteenth Century Counterpoint. (3-0)** A study to develop further skills in the comprehensive approach used in Music 2261 and 2263, with an emphasis upon contrapuntal analysis and writing and a continuation of ear training. Prerequisite: MU 2262 and 2263 or consent of the instructor.

**4343 Jazz Pedagogy. (3-0)** A study of repertoire selection and evaluation, phrasing and articulation, rhythm section techniques, methods of instruction, and review of current teaching styles in American jazz programs, including contest preparation and the teaching of basic improvisation. Prerequisites: completion of MU 2262/2263 and consent of instructor.

**\*4344 Jazz Theory and Arranging. (3-0)** A study of the elements of jazz and popular styles, including but not limited to: scales, modes, chord voicings, standard jazz song-forms, chord substitutions, and various techniques of arranging for big bands and small combos. Prerequisites: completion of MU 2262/2263 and consent of instructor. May be repeated once for credit.

**\*\*4351, \*\*4353 Problems in Music. (3-0)** Study of one or more problems in music. Problems chosen may not duplicate the scope of another course offered for credit. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Chair of the Department of Music.

**4360 Music in the United States. (3-0)** A survey of the music and musical development in this country from pre-Columbian times to the present. Folk music, popular music, and jazz will be considered as well as traditional and experimental styles. Prerequisite: Music 2203-2204, or permission of instructor.

**4385 Advanced Audio Recording Techniques (3-0)** Application of theoretical skills in recording, mixing, and editing concert music. Prerequisites: MU 3383, MU 3384, and concurrent enrollment in MU 4180.

**4680 Internship in Sound Recording Technology (0-6)** Practical experience in audio recording under professional supervision. Provides the opportunity for students to demonstrate professional competencies based on prior theoretical and laboratory experiences. Prerequisites: MU 4385. Capstone course.

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\*May be repeated once for additional credit.

## Applied Music (MUSP)

Private study of piano, voice, organ, string, brass, woodwind, and percussion instruments is available to all students of the University, on both beginning and advanced levels of instruction as teacher space is available. Preregistration with the music office in applied music is advisable.

**Brass, Woodwinds, Percussion, Harpsichord, Strings, Guitar** (see Common Course Numbering in Admission)

1106, 1206, 2108, 2208, 3110, 3210, 3310, 4112, 4212, 4312, 4412

**Organ** 1105, 1205, 2107, 2207, 3109, 3209, 3309, 4111, 4211, 4311, 4411

**Voice** 1103, 1203, 2105, 2205, 3107, 3207, 3307, 4109, 4209, 4309, 4409

**Piano** 1104, 1204, 2106, 2206, 3108, 3208, 3308, 4110, 4210, 4310, 4410

**Jazz Piano Techniques** 3112, 4114

Basic techniques of playing brass, string, woodwind, and percussion instruments: 1111, 2113, 3115, 4117.

Piano Class-Development of piano technique and musical style in a class situation: 1108, 1110, 1112, 1114.

Voice Class-Development of vocal technique and musical style in a class situation: 1131, 2131.

### \*Composition (MUSP)

1108, 1208, 2110, 2210, 3112, 3212, 3312, 4114, 4214, 4314

Intensive work in free composition, including supervised private instruction and performance of student compositions.

### \*Electronic/Computer Music Composition (MUSP)

3112, 3212, 4114, 4214, 4314

Introduction to recording and tape manipulation techniques of music concrete, electroacoustical music techniques involving digital and analog synthesizers and the MIDI environment. Application through the creation of electronic tape compositions and live electronic music.

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\*May be repeated once for additional credit.

\*\*May be repeated once with different emphasis for additional credit.

### MIDI (MUSP)

1108, 1208, 2110, 2210, 3112, 3212, 4114, 4214

Introduction to sequencing and scoring using MIDI devices and computer software. Prerequisite: CS 1308 or 1318 and approval of the instructor.

### \*Departmental Recital (MU)

1000, 2000, 3000, 4000

Performance, attendance, and weekly observation of student recitals. Concurrent enrollment with applied lessons required for all music performance and education majors.

### \*Ensembles (One Credit Each) (MUSE) (see Common Course Numbering in Admission)

Band 1111, 2111, 3111, 4111

Choir 1113, 2113, 3113, 4113

Chamber Music 1121, 2121, 3121, 4121, 1131, 2131, 3131, 4131

Jazz Band 1117, 2117, 3117, 4117

Orchestra 1121, 2121, 3121, 4121

**Music Fees** (In Addition to Registration Fees) - This is a partial listing. Please consult the schedule of classes for other fees.

#### Private Study in voice

(Two one-half hour lessons per week).....\$55 semester  
(One one-half hour lessons per week) .....\$40 semester

#### Private Study in piano

(Two one-half hour lessons per week).....\$55 semester  
(One one-half hour lessons per week) .....\$40 semester

#### Private Study in organ, wind, percussion or string instruments

(Two one-half hour lessons per week).....\$45 semester  
(One one-half hour lessons per week) .....\$27 semester

Music practice room fee .....\$30 semester  
(charged once, no matter how many music classes are registered)

Introduction to Fine Arts .....\$15 semester

Fundamentals of Music.....\$12 semester

Band Instrument Repair.....\$15 semester

Marching Band.....\$15 semester

Other Instrumental Ensembles .....	\$8 semester
Chorale .....	\$15 semester
Other Vocal Ensembles .....	\$8 semester
String, Brass, Woodwind, Piano Class .....	\$23 semester
Recital program, typing & printing .....	\$10.00
Recital recording.....	\$12.50

NOTE: Students enrolled in private voice lessons or instrumentalists preparing for recital performances are responsible for the cost of providing their own accompanist for lessons, rehearsals, and recitals.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Catalog.**

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\*May be repeated for credit.



## Department of Speech Communication

*Chair and Professor-Beebe. Professors-Cheatham, Gratz, Salem, Williams. Associate Professors-Burkholder, Fleuriet, Keeley, Mandzuik. Assistant Professors- Flauto, Burnette. Lecturers-Perry, Critchfield-Jones, Kraemer, Love, Wittrup.*

Speech communication is the study of the creation, transmission, and analysis of messages and of message impact. Speech communication students investigate communication processes within and among individuals, groups, organizations, and societies. They explore verbal and nonverbal communication, organizational and business communication, rhetoric and criticism, argumentation and persuasion, and communication technology.

Speech communication majors learn principles and practical skills useful for careers in business, industry, government, non-profit organizations, social services, and education. Graduates enter such professions as law, business, public relations, training and development, marketing and sales, public administration, ministry, persuasive communication.

The Department of Speech Communication offers undergraduate programs leading to the Bachelor of Arts, including four career paths: general speech communication, interpersonal communication, organizational communication and persuasive communication.

For more information, call 512-245-2165 or visit the department office in room in the General Classroom Building.

### **Bachelor of Arts Major in Speech Communication (Minimum required: 131-154 semester hours)**

A major in speech communication requires completion of a minimum of 33 semester hours in speech communication. Majors must complete at least fifteen semester hours at the 3000-4000 level. All speech communication majors must declare an official minor. See the section of this catalog dealing with minors on page 71. All BA students are required to complete the general studies requirements (see general studies requirements on page 60) and BA degree requirements (see requirements for the Bachelor of Arts degree on page 70).

### **Requirements for Majoring in Speech Communication**

Any student may declare speech communication as a pre-major and take lower division speech communication courses. Any student may declare speech communication as a minor.

**An SWT GPA of at least 2.25 with at least 45 semester hours is necessary to declare a major with an emphasis in one of the following four career paths.**

**Persuasive Communication Career Path.** The curriculum in the persuasive communication career path is appropriate for students planning careers in business and industry, the ministry, law, politics or other careers in which persuasion, rhetorical, and analytical skills are important. Students electing an emphasis in persuasive communication must take the following courses: Communication 1310, 1315, 2325, 2330, 2338, 3327, 3333, and 4331. Majors must select two courses (6 hours) from: Communication 3334, 4316, 4317D, 4317E, 4317F, 4321, 322, 4323, 4338, and 4345. One additional three-hour upper-division course is required.

Students may apply to the departmental internship committee for permission to enroll in Communication 4390. Such enrollment will afford the student with an opportunity to work in a public communication internship. Normally the student will be expected to work approximately 120 clock hours and complete a research project in order to earn the 3 hours of academic credit. Persuasive communication internships are restricted to students who have junior standing and who have completed 18 hours of required communication coursework.

**Interpersonal Communication Career Path.** The interpersonal communication career path is designed to address a variety of career goals for students who seek careers which involve interpersonal interactions with others. This career path is appropriate for students seeking careers in business, non-profit organizations, sales, public relations, customer service, counseling hospitality services (e.g. travel or hotel industry) or other career or profession which emphasizes effective human relationship skills. Students electing the interpersonal communication career path must take the following courses: Communication 1310, 1315, 2330, 2338, 3327, 3333, 3330 3318B or 3318C. Students should select two courses from the following: 3318A, 3318B, 3318C, 3318F or 4331. In addition, students should select one additional upper-level communication course.

**Organizational Communication Career Path.** The curriculum in organizational communication is designed to enhance the student's marketability in careers requiring skills in the management of human relationships and communication flow within contemporary business, public services, and professional organizations. Students electing a major must take the following courses: Communication 1310, 1315, 2330, 2338, 3319, 3327, 3333, and 4347 or 3318A. Students must also elect 6 semester hours from the following: Communication 3318A, 3318D, 3318F, 3330, 4331, 4347, and 4390. One additional three-hour, upper-division communication elective is also required.

Application may be made to the departmental internship committee for permission to enroll in Communication 4390. A 2.75 GPA and senior standing is usually required for internship admission. Internship will afford the student an opportunity to work in a communication related role in an organization. Normally the student will be expected to work on the job for approximately 120 clock hours for 3 semester hours of academic credit.

**General Speech Communication Path.** The general speech communication path is designed to meet a variety of career interests including business, education, law and other professions. Students are allowed maximum flexibility in selecting courses that will most appropriately meet their interests and vocational needs. Students electing the general path must complete the following curriculum: Communication 1310, 1315, 2330, 2338, 3327 and 3333. Majors must select five additional courses (15 hours) with at least three of those courses being advanced.

## Teacher Certification in Speech Communication

Students seeking secondary teaching certification have two options under the general speech communication path. Option I is a 39 hour major for students seeking certification only in speech communication. In addition to the required courses in the general path (1310, 1315, 2330, 2338, 3327 and 3333) they should take 1340, 2325, 3315, 4310, 4320 and two three-hour upper division communication elective courses.

The Option II program is designed for students who desire certification in speech communication and one other area of specialization. For maximum career flexibility, Option II is recommended over Option I. Option II students should take the required courses in the general path (1310, 1315, 2330, 2338, 3327 and 3333) plus 2325, 3315, 4310 and 4320 plus one additional three-hour upper division communication elective course.

Students seeking all-level (48 hours) certification in speech communication and theatre arts are referred to the program described on page 204.

All students pursuing teaching certification in speech communication should consult the certification requirements and criteria for admission to teacher education described on page 160.

## Minor Requirements in Speech Communication

A minor in speech communication consists of 24 semester hours. Students who minor in speech communication are required to take the following courses: Communication 1310, 1315, 2338, 2330, 3327, and 3333 and 6 additional elective communication hours; 4 of the 6 additional communication hours must be advanced. Communication 2111 will not be counted toward the minor.

## Minor in Political Communication

A minor in Political Communication addresses a variety of theories, principles, and skills related to the political communication process. The minor is designed for students interested in law, politics, public administration, public policy, or other professions related to issues and ideas in a political communication context.

A minor in Political Communication consists of selecting the appropriate 12 credits from the Department of Speech Communication and 12 credits from the Department of Political Science for a total of 24 credits.

All students minoring in Political Communication are required to take COMM 4345 Political Communication. The remaining nine hours from the Department of Speech Communication must be selected from the following:

COMM 2325	Argumentation and Debate
COMM 2338	Public Speaking
COMM 3333	Rhetorical Criticism
COMM 4317D	Media Criticism
COMM 4321	American Speeches
COMM 4322	Rhetoric of Protest Movements
COMM 4323	Rhetoric of Social Conflict
COMM 4331	Persuasion
COMM 4338	Advanced Public Speaking

The 12 hours selected from the Department of Political Science should be taken from the following course groups:

3 hours from:

POSI 3331	American Political Theory
POSI 3332	Ancient Medieval Political Thought
POSI 3333	Modern Political Theory (1600-1900)
POSI 3334	Contemporary Political Theory

3 hours from:

POSI 3305	The American Founding
POSI 3306	Religion and American Life
POSI 3307	Parties and Party Politics
POSI 3310	Constitutional Law: Basic Structures and Principles
POSI 3311	Constitutional Law: Individual Liberties
POSI 3312	Constitutional Law: Civil Rights
POSI 3314	State and Local Government
POSI 4301	Politics and Film
POSI 4302	Legal Theories and Research
POSI 4322	Public Policy Formulation
POSI 4331	Minority Politics
POSI 4345	American Foreign Policy

3 hours from:

POSI 3308	Congress and the Legislative process
POSI 3309	The American Presidency
POSI 4311	The Supreme Court and Judicial Process

3 hours from:

POSI 4313	Islamic Law and Politics
POSI 4314	Middle East Revolution and Nationalism
POSI 4338	Government and Politics of Latin America
POSI 4340	Government and Politics of Western Europe
POSI 4341	Government and Politics of the Soviet Union
POSI 4350	Government and Politics of Asia
POSI 4351	African Politics
POSI 4372	Government and Politics of Central and Eastern Europe
POSI 4373	Politics and National Identity in Central Asia and the Caucasus
POSI 4315	The Arab-Israeli Conflict
POSI 4326	Issues in World Politics
POSI 4327	Theories of International Politics
POSI 4349	Topics in Comparative Politics
POSI 4352	International Communism
POSI 4357	International Organization
POSI 4358	United States-Latin American Relations
POSI 4359	Politics of International Economic Relations

If a student elects to major in either speech communication or political science, no COMM or POSI course may count both for a major and a minor in political communication.

### Courses in Speech Communication (COMM)

**\*2111 (SPCH 1144, SPCH 1145, SPCH 2144, & SPCH 2145) Speech and Drama Activities. (1)** A course designed to provide credit for participation in speech communication and theatre activities. May be repeated a total for four credits in speech communication and four credits in theatre.

**1310 (SPCH 1311) Fundamentals of Speech Communication. (3-0)** A first course in speech communication. Study aims at understanding of fundamentals of oral communication, and practice in employing the techniques involved.

**1315 (SPCH 1318) An Introduction to Interpersonal Communication. (3-0)** An introduction to materials exploring face-to-face communication and relational development. Emphasis on conceptual foundations, personal growth and skill enhancement. Prerequisite: COMM 1310.

**1340 (SPCH 1342) Voice and Diction. (3-2)** The human voice and the sounds of speech. The student's own voice and pronunciation will be the primary concern, using practice sessions to develop more acceptable patterns of voice and sounds.

**2320 Business and Professional Speech. (3-0)** A course designed to give business and professional students the fundamentals of speech as used in communication situations such as interviews, group discussions, and public speaking.

**2325 (SPCH 2335) Argumentation and Debate. (3-0)** A study of basic principles of argumentation emphasizing analysis, evidence, reasoning, and refutation and their applications in formal and informal debate contexts. Students will do laboratory work with the University forensic squad. Prerequisite: COMM 1310.

**2330 (SPCH 2333) Small Group Communication. (3-0)** A study of communication in the small group, including analysis of the influence of group structure, teambuilding, norms, roles, leadership, and climate on group process. Special emphasis on problem-solving discussion. Prerequisite: COMM 1310.

**2338 (SPCH 1315) Public Speaking. (3-0)** This course helps the student to develop personal speaking skills and introduces principles of contemporary types of speeches. Prerequisite: COMM 1310.

**3315 Interpretive Reading. (3-0)** A study of the techniques of the oral interpretation of poetry with an emphasis on performance.

**3318 Studies in Human Communication. (3-0)** This series of courses presents a variety of topics associated with communication theory and provides an application of communication principles in contemporary contexts.

(WI) **\*\*3318A Communication and Conflict Management. (3-0)**

(WI) **\*\*3318B Family Communication. (3-0)** Prerequisite: COMM 1315

(WI) **\*\*3318C Communication and Gender. (3-0)** See Anthropology 3350. Prerequisite: COMM 1315.

(WI) **\*\*3318D Communication Training and Human Resource Development (3-0)** Prerequisite: COMM 3319.

(WI) **\*\*3318E Language and Communication. (3-0)** Prerequisite: Comm 1310

**\*\*3318F Intercultural Communication. (3-0)** Prerequisite: Comm 1310

(WI) **\*\*3319 Introduction to Organizational Communication. (3-0)** Examines contemporary research about the influence of communication on the organization. Prepares the student to understand and manage communication processes in organizations. Prerequisite: 6 hours COMM.

**3323 Communication in Contexts. (3-0)** A review of theory and principles relevant to a variety of communication contexts. Includes a discussion of verbal behaviors that develop a positive communication climate. Prerequisite: COMM 1315.

**3327 Communication Research Methods and Theory. (3-0)** An analysis of experimental and correlational research methods employed in the study of speech communication as a behavioral science. Focuses on the student as a consumer of communication research. Explores the interdisciplinary nature of human communication as well as the resulting theory and principles. Prerequisite: 6 hours COMM.

(WI) **3330 Nonverbal Communication. (3-0)** Introduces the conceptual foundations of nonverbal communication. Theoretical perspectives, research methods and applications of nonverbal communication are also explored in a variety of contexts. Prerequisite: COMM 1315 or COMM 2330.

(WI) **\*\*3333 Rhetorical Criticism. (3-0)** Exploration and application of methods of analysis and evaluation of rhetorical discourse. Emphasis on developing critical research and writing skills. Students should complete Comm 3333 before enrolling in other advanced rhetorical studies courses. Prerequisite: 6 hours COMM.

(WI) **3334 The Rhetoric of Women Suffrage. (3-0)** Students in this course analyze and evaluate persuasive messages of the early Women's Rights movement (c.1838-1920). Emphasis is on understanding how women's rhetorical efforts to influence social issues such as abolition of slavery and prohibition of alcohol resulted in the movement to change women's legal and social status and gain voting rights. Prerequisite: COMM 1310.

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\*May be repeated once with different emphasis for additional credit.

\*\*Consult the department chair for the most recent additions.

**4310 Communication and Theatre Developmental Seminar. (3-0)** Examines procedures for diagnosing and improving speech communication and/or theatre instructional skills. Prerequisite: Admission to teacher certification program or permission of department chair.

**\*4315 Directed Research in Speech Communication. (3-0)** Individual or group research projects at the advanced level that are not offered in the present curriculum. Permission and project approval must be obtained from the departmental chair prior to registration. Prerequisite: Instructor permission.

**4317 Studies in Public Communication. (3-0)** This series of courses explores a variety of communication messages and contexts by applying critical methods and theories.

(WI) **4317d, Media Criticism. (3-0)** Prerequisite: COMM 1310

(WI) **4317e, Advanced Argumentation. (3-0)** Prerequisite: COMM 2325

**4320 Directed Speech and Theatre Activities. (3-0)** Designed to assist individuals to manage and implement programs in speech communication and theatre. The course includes practical experience in directing debate, plays, and individual events. Prerequisite: Admission to Teacher Certification Program or instructor permission.

(WI) **4321 American Speeches. (3-0)** Analysis and evaluation of major American speeches and their influence on the history and culture of the United States from 1630 to the present.. Prerequisite: COMM 1310.

(WI) **4322 Rhetoric of Protest Movements. (3-0)** Explores the persuasive strategies used by protest and political movements to promote social and political change. Focuses upon the application of critical perspectives in understanding the stages, leadership styles, and rhetorical appeals characteristics of movements in American society. Prerequisite: COMM 1310.

(WI) **4323 Rhetoric of Social Conflict. (3-0)** Students in this course analyze and evaluate persuasive messages by advocates supporting different viewpoints on issues that create social conflict. Those issues may be historical or contemporary. The analysis and evaluation focuses on understanding the context in which the messages occurred and the rhetorical theories that explain how they were intended to influence their audiences. Prerequisite: COMM 1310.

**4331 Persuasion. (3-0)** An investigation of rhetorical and behavioral theories of persuasion, the devising of persuasive campaigns, as well as the consumption and generation of persuasive messages in a variety of communication settings. Applicable for careers in business, law, and human relations. Prerequisite: 6 hours COMM or permission of instructor.

**4338 Advanced Public Speaking. (3-0)** In-depth critical analysis of speech construction and the development of presentation skills. Prerequisite: COMM 2338.

(WI) **4345 Political Communication. (3-0)** A study of historical and contemporary political campaigns in the United States analyzing management strategies, promotional techniques, and rhetorical messages. Prerequisite: COMM 1310.

**4347 Leadership and Communication. (3-0)** An advanced course in communication designed to examine in detail the phenomenon of leadership in groups and organizations. Various theories and approaches to leadership will be surveyed with an emphasis on applying leadership principles. Prerequisites: COMM 2330 and COMM 3319 or COMM 3327.

**4390 Communication Internship. (0-6)** Actual on-the-job experience in a communication-related role in an off-campus organization; requires approximately 120 clock hours on the job in addition to written reports. Prerequisite: Permission of instructor.

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\*May be repeated once with different emphasis for additional credit.

\*\*Consult the department chair for the most recent additions.

## Department of Theatre

*Chair and Professor-March. Professors-Coulson, Hannon, Hargett, Maganza, Pascoe, Peeler, Soddors. Assistant Professor-Simone. Lecturers-Bishop, Gardner, Hovis, Jennings.*

The Department of Theatre provides classroom instruction in all phases of live theatre performance. That instruction is reinforced by students' participation in every area of theatrical production and performance. All theatre majors take a twenty-two hour core curriculum in the discipline, and then specialize in acting, design/technical, directing, musical theatre, or certification to teach in the public schools. Graduates earn a Bachelor of Fine Arts (BFA) or Bachelor of Arts (BA) degree.

Theatre majors must possess a 2.5 grade point average to be eligible for casting in a major production and for admission into the Pre-Professional programs. Students who are admitted to Pre-Professional programs must maintain a 2.5 grade point average to remain in the program. Students who fail to do so will be advised into another program.

Graduates of the theatre work as teachers, actors, designers, writers, producers, directors, and production workers in film, television, and in theatre. Many have gone on or to advanced degrees, preparing to teach at the college or university level.

For more information call 512-245-2147 or visit the Speech and Drama Center, 120.

## **Bachelor of Arts** **Major in Theatre** **(Minimum Required: 128 semester hours)**

Students pursuing a BA may elect to major or minor in theatre. A major in this discipline requires completion of a minimum of 30 semester hours, with six additional hours strongly recommended. At least twelve semester hours must be at the 3000/4000 level. Students must declare an official minor. See the section of this catalog dealing with minors. The BA degree requires sophomore proficiency in a foreign language and completion of two semesters of the same laboratory science. Since the General Studies program requires 18 hours of writing intensive coursework, electives and minors should be selected with care. See section of catalog stating requirements for a Bachelor of Arts degree.

All theatre majors are required to participate in theatre production activities each semester, and BA students must enroll in Theatre 2111 a minimum of two semesters.

<b>Freshman Year</b>	<b>Hours</b>
TH 1354.....	3
TH 1358.....	3
TH 1364.....	3
TH 1365.....	3
TH 2111.....	1

<b>Sophomore Year</b>	<b>Hours</b>
TH 2111.....	1
TH 2338.....	3
TH Elective.....	3

<b>Junior Year</b>	<b>Hours</b>
TH 3320 .....	3
TH 3321 .....	3
TH 3344, 3346 or 4345 .....	3

Senior Year	Hours
TH 4364.....	3
TH Elective.....	3



The BFA contains two options: (1) a special emphasis curriculum leading to a pre-professional degree and (2) an education curriculum leading to secondary certification in Theatre.

**Bachelor of Fine Arts  
Major in Theatre  
(Minimum Required: 128 semester hours  
with Pre-Professional Option)**

**Notes:**

1. A minimum of 60 semester hours in Theatre, of which 36 are required. At least 30 semester hours must be advanced.
2. Students will be admitted to this option at the end of the sophomore year after passing an admissions interview/audition with the Bachelor of Fine Arts Review Committee. Students will be expected to maintain high artistic and academic standards. For specific admission requirements and procedures, students should contact the Department of Theatre before March 15.
3. Bachelor of Fine Arts Theatre students choose their career path in consultation with the Bachelor of Fine Arts review Committee.
4. All Theatre majors are required to participate in theatre production activities each semester. Bachelor of Fine Arts students with an acting or directing specialization will enroll for Theatre 2111 a minimum of two semesters, and musical theatre and technical/design specializations will enroll a minimum of one semester.
5. Students desiring certification within the pre-professional option will complete additional work including 18 hours of education courses and Reading 3324 (see your academic adviser).
6. General Studies requirements must be met.

**Bachelor of Fine Arts  
Major in Theatre  
(Minimum required: 128 semester hours  
with Pre-Professional Option-Acting)**

<b>Freshman Year</b>	<b>Hours</b>
TH 1340.....	3
TH 1354.....	3
TH 1355.....	3
TH 1364.....	3
TH 1365.....	3
TH 2111.....	1

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16

<b>Sophomore Year</b>	<b>Hours</b>
TH 1358.....	3
TH 2111.....	1
TH 2338.....	3
TH 2354.....	3

<b>TH 3344, 3346 or 4345</b>	<b>3</b>
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13

<b>Junior Year</b>	<b>Hours</b>
TH 3320.....	3
TH 3321.....	3
TH 3342.....	3
TH 3343.....	3
TH 3365.....	3
TH 3390.....	3
TH 4390.....	3

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21

<b>Senior Year</b>	<b>Hours</b>
TH 3367.....	3
TH 4360(Voice).....	3
TH 4361.....	3
TH 4364.....	3
TH 4391.....	3
TH 4392.....	3
TH 4393.....	3

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21

**Bachelor of Fine Arts  
Major in Theatre  
(Minimum required: 128 semester hours  
with Pre-Professional Option-Pre-Directing)**

<b>Freshman Year</b>	<b>Hours</b>
TH 1340.....	3
TH 1354.....	3
TH 1355.....	3
TH 1364.....	3
TH 1365.....	3
TH 2111.....	1

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16

Sophomore Year	Hours
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TH 1358.....	3
TH 2111.....	1
TH 2338.....	3
TH 2354.....	3
TH 3344, 3346 or 4345 .....	3

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13

Junior Year	Hours
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TH 3320.....	3
TH 3321.....	3
TH 3342.....	3
TH (Advanced).....	6

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15

<b>Senior Year</b>	<b>Hours</b>
TH 3367.....	3
TH 4357.....	3
TH 4360(Voice).....	3
TH 4363.....	3
TH 4364.....	3
TH 4365.....	3
TH (Advanced).....	3

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21

**Bachelor of Fine Arts  
Major in Theatre  
(Minimum required: 128 semester hours  
with Pre-Professional Option-Design-Technical)**

1. Non-specified advanced TH classes are chosen in consultation with adviser, from 3343, 3346, 4338 (Rpt), 4345 (Rpt), 4347, 4355, 4356 , or 4357(Rpt.)
2. Technical/Design students are also required to take 6-9 hours from Art, Technology, and/or Physics, chosen in consultation with adviser.

<b>Freshman Year</b>	<b>Hours</b>
TH 1358.....	3
<b>TH 1364</b>	<b>3</b>
TH 2111.....	1
TH 2338 or 3344 .....	3

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10

<b>Sophomore Year</b>	<b>Hours</b>
TH 2338 or 3344 .....	3
TH 3320.....	3
TH 3321.....	3
Art, Technology, or Physics .....	3

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12

<b>Junior Year</b>	<b>Hours</b>
TH 3390.....	3
TH 4390.....	3
TH 4391.....	3
TH 4338.....	3
TH 4345.....	3
TH 4357.....	3
Art, Technology or Physics .....	3
TH (Advanced).....	3-6

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24-27

<b>Senior Year</b>	<b>Hours</b>
TH 3367.....	3
TH 4364.....	3
TH 4392.....	3
TH 4393.....	3
Art, Technology, or Physics .....	3
TH 4365.....	3
TH (Advanced).....	3-6

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18-21

**Bachelor of Fine Arts  
Major in Theatre  
(Minimum Required: 128 semester hours  
with teaching certification)**

**Notes:**

1. A first teaching field in theatre programs consists of a minimum of 41 semester hours, with at least 24 hours advanced.
2. All theatre majors are required to participate in theatre production activities each semester, and secondary certification specializations will enroll in Theatre 2111 a minimum of two semesters.
3. General Studies and teacher education requirements must be met.

<b>Freshman Year</b>	<b>Hours</b>
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TH 1354.....	3
TH 1358.....	3
TH 1364.....	3
TH 1365.....	3
TH 2111.....	1

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13

<b>Sophomore Year</b>	<b>Hours</b>
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TH 2338.....	3
TH 3344, 3346 or 4345).....	3
Theatre 2111.....	0-1

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7

<b>Junior Year</b>	<b>Hours</b>
TH 3320.....	3
TH 3321.....	3
TH 4357.....	3

<b>Senior Year</b>	<b>Hours</b>
TH 4310.....	3
TH 4320.....	3
TH 4364.....	3
TH 4365.....	3

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12

**Bachelor of Fine Arts  
Major in Musical Theatre  
(Minimum Required: 131 semester hours)**

**Notes:**

1. Students will be admitted to this option at the end of the sophomore year after passing an admissions interview/audition with the Bachelor of Fine Arts Review Committee. Students will be expected to maintain high artistic and academic standards. For specific admission requirements and procedures, students should contact the Department of Theatre before March 15.
2. Bachelor of Fine Arts Theatre students choose their career path in consultation with the Bachelor of Fine Arts review Committee.
3. The General Studies requirement for two semesters of Physical Education should be taken in Dance.
4. General Studies requirements must be met.

<b>Freshman Year</b>	<b>Hours</b>
TH 1354.....	3
TH 1364.....	3
TH 1365.....	3
TH 2111.....	1
MU 1210 .....	2
MU 1211 .....	2
MU 1212 .....	2
MU 1213 .....	2
MUSP 1108W .....	1
MUSP 1110W .....	1
MUSP 1203Y (Twice).....	4
MUSP 1121K (Twice).....	2
MUSE 1113I.....	1

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27

<b>Sophomore Year</b>	<b>Hours</b>
TH 1358.....	3
TH 2338.....	3
MUSP 2205Y(Twice).....	4
MUSP 2121K(Twice).....	2
MUSE 2113I.....	1

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13

<b>Junior Year</b>	<b>Hours</b>
TH 3320.....	3
TH 3321.....	3
TH 3342.....	3
TH 3344, 3346, or 4345 .....	3
TH 3390.....	3
TH 4390.....	3
MUSP 3107Y(Twice).....	2
MU 3207 .....	2



Senior Year	Hours
TH 4364.....	3
TH 4391.....	3
TH 4392.....	3
TH 4393.....	3
MUSP4109(Twice).....	2
MU 3315 .....	3
MU 3316 .....	3
MU 4150 .....	1

## Courses in Theatre (TH)

**1340 Voice and Diction (3-2)** The human voice and the sounds of speech. The student's own voice and pronunciation will be the primary concern, using practice sessions to develop more acceptable patterns of voice and sound.

**1354 Movement I. (3-0)** Creative movement for the theatre. Designed to stimulate the actor's body to increase flexibility and the Kinetic response to environmental stimulus through exercise and research into the physical process.

**1355 Movement II. (3-0)** A continuation of Movement I and the exploration of kinesthetic response for the actor, using movement techniques in class performances and further research into the techniques of Alexander, Feldenkrais, and Laban. Prerequisite: TH 1354

**1358 (DRAM 1330) Stagecraft. (3-2)** The study and practice of basic techniques of scene construction, painting, and rigging. Includes laboratory work in conjunction with University Theatre productions.

**1364 (DRAM 1351) Beginning Acting. (2-1)** Classroom exercises designed to explore and discover the actors inner resources, and to develop the personal awareness of the student's imaginative potential. Registration by theatre majors in conjunction with 1264A; may be taken by non-majors independently.

**1365 (DRAM 1352) Intermediate Acting. (2-1)** Classroom exercises designed to continue the exploration of the actor's inner resources; additional work on discovering techniques of developing a character. Registration by theatre majors in conjunction with 1264B; may be taken by non-majors independently. Prerequisite: Acting I or its equivalent.

**1370 Introduction to Creative Drama. (3-0)** Classroom activities designed so the student will learn creative drama theory and appreciate creative drama as both an art form and a valuable teaching tool. Through participation in these activities the student will become familiar with innovative ways to teach traditional material through non-traditional ways across the elementary school curriculum.

**\*2111 Theatre Activities (1-1)** A course designed to provide credit for participation in theatre activities. May be repeated to a total of four credits.

**2338 (DRAM 2331) Stage Lighting. (3-2)** A continuation of Theatre 1358. Design and techniques in the use of lighting in the theatre. Practical experience in University productions required for one semester.

**2354 (DRAM 2351) Characterization. (3-2)** A studio acting course in which the student explores and develops techniques of creating a role. Prerequisite: Theatre 1365 or its equivalent.

**3313 Introduction to the Fine Arts. (3-0)** A study of the interrelation of theatre with art, music and dance. This course may not be repeated for credit by taking Art 3313, Dance 3313, or Music 3313.

(WI) **3320 History of the Theatre I. (3-0)** A study of the theatre and its place in the social and cultural evolution from primitive civilization to 1700. Selected examples of theatre literature are studied.

(WI) **3321 History of the Theatre II. (3-0)** A study of the theatre and its place in the social and cultural evolution from 1700 to the present. Selected examples of theatre literature are studied.

**\*3342 Television/Film Performance. (3-2)** A practical laboratory course in television and film performance techniques. Including procedures and requirements for professional engagements.

**3343 Stage Makeup. (3-0)** A practical course in developing techniques used in applying stage makeup. Emphasis is placed on painting, and contouring the face to achieve the desired effect. Special projects include fantasy makeup and mask making.

**3344 Costume Construction. (3-2)** A practical approach to building costumes for the stage. Emphasis is on stitching techniques and introductory patterning. Practical experience with university productions required in laboratory.

**3346 Historical Costume Research. (3-2)** A study of clothing, accessories, and customs of selected theatrical periods as an approach to costuming period plays.

**\*3355 Playwriting. (3-2)** A study of play fundamentals (structure, dialogue, and mechanics), and guidance and discussion of representative plays. Prerequisite: Instructor approval is required prior to enrollment.

**3365 Acting Styles. (3-2)** Studio course emphasizing historical as well as contemporary theories of acting; includes the presentation of individual acting projects. Prerequisite: Theatre 2354 or permission of the department chair.

(WI) **3367 Theory and Analysis. (3-0)** A study of dramatic theory and play analysis for production, including the study of forms, styles, and methods.

**3370 Child Drama. (3-0)** Emphasis on creative drama as an art form and the role of facilitator. Attention is given to the beginning elements of children's theatre. Includes puppetry.

**3390 BFA Pre-Professional Apprenticeship I. (2-4)** Intensive work in one of the following career paths: Acting, design, and theatre technologies, costuming. Prerequisite: Formal admission into the Bachelor of Fine Arts Pre-professional Program.

**\*4320 Directing Theatre Activities (3-0)** Designed to assist any teacher in directing theatre activities. During the course, students will direct plays or scenes May be repeated with different emphasis for additional credit.

**4338 Lighting Design. (3-2)** Lighting design is a continuation of the principles covered in Stage Lighting. This course will concentrate primarily on the aesthetics of stage lighting, and will cover such topics as: viewer psychological and physiological responses as they pertain to visual perception; color, script analysis; use of light in creating both static and dynamic visual compositions; development and graphic representation of a theatrical lighting design. Prerequisite: TH 2338.

**4345 Costume Design. (3-2)** A study of the principles and elements to relate to designing theatrical costumes. Includes experience in research as well as developing drawing and rendering techniques.

**4347 Advanced Costume Construction. (3-2)** An advanced course in building costumes for the stage. Advanced techniques in sewing as well as pattern design and drafting is included. Prerequisite: TH 3344.

**\*4355 Scene Painting (3-2).** Theory and practice of scene and costume painting as developed in the Italian Renaissance and continuing into new media available today. \*May be repeated with different emphasis for additional credit.

**4356 Advanced Theatre Drafting (3-2).** A study of computer techniques and procedures used in the preparation of design and technical drawings for theatrical scenery, costumes, and lighting.

**\*4357 Scene Design. (3-2)** A study of scene design as the total visual effect of the play, with practical assignments of execution through renderings and scaled models.

**\*4360 Problems in Theatre. (3-0)** Designed to give supervised experience to qualified advanced students in theatre history, playwriting, directing, acting, technical, or other theatre problems. Research problems or actual production problems may be chosen.

**4361 Dialects For Actors (3-2).** A study of the International Phonetic Alphabet and other vocal techniques used to create vocal variations such as regional, national, and international dialects.

**\*4363 Directing For Film & Television. (3-2)** An in-depth examination of directing theories and procedures for film and television with practical exercises. Prerequisite: TH 3342. "May be repeated with different emphasis for additional credit.

(WI) **4364 Directing I. (3-2)** A study of the fundamentals of directing with practical experience provided by directing scenes.

(WI) **4365 Directing II. (3-2)** A study of Directing different dramatic styles. Students will direct a one-act play during regular semesters. Prerequisite: Theatre 4364.

**\*\*4370 Children's Theatre (3-0)** Continuation of Creative Dramatics, and the theory and practice related to all phases of producing plays for and with young people through junior high school age. Practical experience in a University production as required for one semester.

**4390 BFA Pre-Professional Apprenticeship II (3-2).** Intensive laboratory work in individual and group theatre methods for the actor, designer or technician. Each apprenticeship from BFA I to V will focus upon a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of internal process.

**4391 BFA Pre-Professional Apprenticeship III (3-2).** A continuation of laboratory work for the actor. Each apprenticeship from BFA II-V will focus on a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process.

**4392 BFA Pre-Professional Apprenticeship IV (3-2).** A continuation of laboratory work for the actor. Each apprenticeship from BFA II-V will focus on a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process.

**4393 BFA Pre-Professional Apprenticeship V (3-2).** A continuation of laboratory work for the actor. Each apprenticeship from BFA II-V will focus on a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process.

## **Courses in Speech Communication or Theatre (COMM or TH)**

(The student will designate a choice of speech communication or theatre at the time of enrollment for these courses.)

**1340 (DRAM 2336) Voice and Diction. (3-2)** The human voice and the sounds of speech. The student's own voice and pronunciation will be the primary concern, using practice sessions to develop more acceptable patterns of voice and sounds.

**\*2111 (DRAM 1120, 1121, 1141, 1161, 1162, 2120, & 2121) Speech and Drama Activities. (1-1)** A course designed to provide credit for participation in speech communication and theatre activities. May be repeated to a total for four credits in speech communication and four credits in theatre.

**3315 Interpretive Reading. (3-0)** A study of the techniques of the oral interpretation of poetry with an emphasis on performance.

**4310 Speech Communication and Theatre Curriculum Development (3-0)** Emphasizes approaches to curriculum development in Speech Communication and Theatre. Reviews procedures and materials for diagnosing and improving speech communication and theatre skills. Enrollees in TH 5310 will be more specifically concerned with college level curriculum development.

**\*4320 Directing Theatre Activities. (3-0)** Designed to assist any teacher in directing theatre activities. During the course students will direct plays or scenes. \*May be repeated with different emphasis for additional credit.

**\*\*4370 Children's Theatre. (3-0)** Continuation of Creative Dramatics, and the theory and practice related to all phases of producing plays for and with young people through junior high school age. Practical experience in University production as required for one semester.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Catalog.**

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\*May be repeated with different emphasis for additional credit.

\*\*May be repeated once for additional credit.



# SCHOOL OF HEALTH PROFESSIONS

**Rumaldo Z. Juarez, Ph.D., Dean**  
**Ruth B. Welborn, Ph.D., Associate Dean**

## **Department Chairs/Program Chairs**

Communication Disorders ..... Richard Mallard, Ph.D.  
Health Administration..... Wayne Sorensen, Ph.D.  
Health Services and Research ..... Charles Johnson, Ph.D.  
Physical Therapy ..... Barbara Sanders, Ph.D.  
Respiratory Care ..... Cade Harkins, M.S.H.P.

**Social Work.. Karen Brown, Ph.D.**

Clinical Laboratory Science  
Program..... David Falleur, M.Ed.  
Health Information  
Management Program ..... Sue Biedermann, M.S.H.P.  
Radiation Therapy  
Program..... Ronnie Lozano, B.S.H.P.

## **SCHOOL OF HEALTH PROFESSIONS**

The School of Health Professions prepares students for careers in the health care field and social work. Through its professional, technical, clinical and academic programs, the school serves as an advocate for change and technical improvement in the field. The school also serves as a catalyst to expand and improve public perceptions of health care in the community.

Undergraduate programs are available in clinical laboratory science, communication disorders, health care administration, health information management, long term health care administration, radiation therapy, respiratory care and social work. Graduate programs are offered in allied health research, communication disorders, health care administration, healthcare human resources, physical therapy and social work. The school also includes the Health Resource Center, a separate unit which offers continuing education programs, the Institute for Quality Improvement in Long Term Health Care and the Walter H. Richter Institute of Social Work Research. The school has a number of cooperating teaching sites and more than 600 affiliations with hospital and other healthcare facilities. For more information, call (512) 245-3300 or visit the office of the dean in the Health Science Center.

A number of programs offered in the School of Health Professions have specific admission requirements in addition to the university admission requirements. Most programs also have requirements for student liability insurance and immunizations. For specific information on these requirements, please see the individual department section of the catalog.

## Department of Communication Disorders

*Chair and Professor-Mallard. Assistant Professors-Harris, Slansky. Lecturers-Edwards, McPhillips, Stiritz, Whalen. Clinical Faculty-Adams, Bean, A. Brown, P. Brown, Burkhalter, Cantu, Darmawi, Daryapayma, Douglas, Duffy, Ellis, Fuhrman, Givens, Gonzales, Gustafson, Hammock, Harrington, Hayes, Hethcock, Hutchings, Ibbotson, Iliff, Jarzombek, Johns, B. Johnson, L. Johnson, Joyner-McGrath, Knauss, Kowalesky, Laubach, Lechlop, Loehr, Lopez, Mandaville, Maxwell, Myers, Outten, Pachecko, Phillips, Radcliffe, Ramsey, Roberts, Slansky, Sparks, Swope, Karen Wright, Kathy Wright, Wood, Yznaga*

### Liability Insurance

1. Students who participate in the clinical or internship portions of the Department of Communication Disorders are required to purchase liability insurance or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the departmental office.

### Immunization Requirements

It is a policy of the School of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the departmental office.

### Communication Disorders

The Department of Communication Disorders prepares students at the graduate level to diagnose and manage speech-language problems in children and adults. A four-year baccalaureate degree is required for entry into the graduate program. A master's degree is required for national certification and state licensure. A minimum of 375 documented and verified clock hours of supervised clinical practicum are required for certification.

The academic program is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association. Students work in the Speech-Language-Hearing Clinic on campus and also have the opportunity to participate in clinical experiences throughout Texas and the United States.

### Admission Process

Admission to the undergraduate major in Communication Disorders is competitive and selective. The academic sequence begins during the fall semester. Enrollment is limited by student/faculty ratios in both academic and clinical components of the program.

1. To be considered for admission to the preprofessional sequence:
  - Completion of a minimum of 50 hours of General Studies coursework with a minimum GPA of 2.75. The following courses must be included in the GPA calculation: CDIS 1331, English 1310, 1320, Biology 1420, 2430, English 3303, Family and Consumer Sciences 2351, Physics 1310, 1110, Math 1315 and Health Professions 3302.
  - Submit a completed application form and SWT transcript to the Chair of the Department of Communication Disorders through the academic advisor. The academic advisor will be assigned during the first advising session.
  - New transfer students must submit a SWT evaluated transcript and letter of acceptance.
  - Student selection is made on academic performance and not on the basis of race, color, religion, sex, age, or national origin.
  - The application deadline is April 1.
2. The progression requirements for CDIS courses are as follows:
  - Courses must be taken in sequence identified in the catalog.
  - Must make no less than a "C" in a prerequisite course before the next course is taken.
  - Make no less than a "C" in support courses.
  - Have a GPA of 2.75 in the major in order to graduate.

## **Bachelor of Science in Communication Disorders Major in Communication Disorders (Minimum required: 132 semester hours)**

### Freshman Year

Communication 1310 ..... 3

**Communication Disorders 1331 ..... 3**

English 1310, 1320 ..... 6

General Studies 1100 ..... 1

History 1310, 1320 ..... 6

Mathematics 1315 ..... 3

Philosophy 1305 ..... 3

Physical Fitness Perspective

(2 courses)* .....	2
Biology 1420 .....	4
Chemistry 1310.....	3

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#### **Sophomore Year**

Biology 2430 .....	4
Art, Dance, Music, or Theatre 3313 .....	3
English (Literature)* .....	3
English 3303 .....	3
FCS 2351 or Psy 2315 .....	3
Physics 1110, 1310 .....	4
Political Science 2310, 2320 .....	6
CS 1308 or equivalent .....	3
Health Professions 3302 .....	3
Psychology 1300 .....	3

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#### **Junior Year**

Communication Disorders 2459, 2469 .....	8
Communication Disorders 3325 .....	3
Communication Disorders 3462 .....	4
Communication Disorders 4412 .....	4
Communication Disorders 4317 .....	3
Communication Disorders 4469 .....	4
International Perspective* .....	3
Health Information Management 2360 .....	3

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#### **Senior Year**

Communication Disorders 3462, 2370, 4420 .....	11
Support Elective .....	3
Communication Disorders 4340 .....	3
Communication Disorders 4350, 4370, 4344** .....	9
Psychology 4342 .....	3
Sociology 3383 or Psy 3313 .....	3

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\*See General Studies requirement on page 60.

\*\*CDIS 4344 must be taken every semester clock hours are earned in speech-language pathology. CDIS 4321 must be taken if clock hours are earned in audiology.

NOTE: Any student who graduated from high school after January 1988 and did not complete two years of the same foreign language is required to take 6-8 hours of foreign language.

## **Courses in Communication Disorders (CDIS)**

**1331 Introduction to Communication Disorders. (3-0)** Study of speech, hearing, and language development and its disorders; descriptions of communicative disorders and their etiologies for the speech-language pathologist, health professional, and classroom teacher.

**1410 (SGNL 1401) Beginning American Sign Language. (4-0)** Introduction to understanding and using American Sign Language within the cultural framework of the deaf community.

**1420 (SGNL 1402) Intermediate Sign Language. (4-0)** Continued practice in understanding and using American Sign Language within the cultural framework of the deaf community. Prerequisite: CDIS 1410 or equivalent.

**2310 (SGNL 2301) Linguistics of American Sign Language. (3-0)** Fluent understanding and use of American Sign Language within the cultural framework of the deaf community. Prerequisites: CDIS 1410, 1420 or equivalent.

**2320 (SGNL 2302) Advanced American Sign Language. (3-0)** Maximum understanding and use of American Sign Language within the cultural framework of the deaf community. Prerequisites: CDIS 1410, 1420, 2310 or equivalent.

(WI) **2370 Speech and Language Development. (3-0)** Course to acquaint students with children's normal acquisition of speech and language. Basic information from linguistics, psycho-linguistics, psychology, and communication are examined for children in various stages of development.

**2459 Phonemics and Phonetics. (3-1)** Analysis of normal and abnormal phonological processes in children and adults with communication disorders. Proficiency in transcription using the alphabet of the International Phonetic Association emphasized.

**2469 Introduction to Hearing Science. (3-2)** Study of acoustics, auditory physiology and perception of sound. Includes discussion of auditory sensitivity, signal detection, psychoacoustic methods, perception of pitch and loudness, binaural hearing and speech perception. Associated laboratory promotes reinforcement of concepts addressed in lecture through review, problem solving and weekly assignments.

**3325 Anatomy and Physiology of the Speech Production System. (3-0)** Description of structure and function of the speech production system with emphasis on physical problems in speech, language, and hearing.

(WI) **3330 Rehabilitation of Language Learning Disability. (3-0)** Habilitation and rehabilitation of children and adults with receptive-expressive communication disorders emphasizing visual, graphic, and computational deficits. Principles and techniques for treatment of pre-school disorders through adult neurogenic disability. Prerequisites: CDIS 2370, 3466.

(WI) **3462 Remediation of Articulatory and Phonological Disorders. (3-2)** This course prepares students to manage articulation and phonological disorders. Current therapeutic models are reviewed. Observation of therapy and instruction in preparation of written clinical reports are required. Prerequisites: CDIS 2459, 2370 and 3325.

(WI) **3466 Language Disorders. (4-2)** Study of principles and procedures for the identification, description, assessment and remediation of language disorders in infants, children, and adolescents. Students will observe demonstrations of assessment procedures and types of language disorders within the context of clinical procedures. Describing observed behaviors and analyzing language samples will be emphasized. Prerequisite: CDIS 2370.

**4301 Selected Topics in Communication Disorders. (3-0) In-depth study of selected topics in Communication Disorders for the exceptionally motivated student. Work done on an independent basis with faculty member and only with prior departmental permission.**

(WI) **4317 Service Delivery in Communication Disorders. (3-0)** Provide a foundation of clinical management to prepare CDIS students to work in a variety of settings. Emphasis will be placed on techniques of goal and objective sequencing, report writing, evaluation of services, ethics, and interdisciplinary collaboration. Prerequisites: CDIS 2459, 2370, 3462 and 3466. (Capstone Course).

**4321 Clinical Practicum in Audiology. (1-3)** Supervised clinical practicum in audiology. Experience in obtaining the case history selection and administration of audiological tests, interpretation of audiological findings, report writing, and making appropriate referrals. Must be taken each semester student participates in any supervised clinical practicum in audiology. Prerequisites: Successful completion of CDIS 3462, 3466 and 4420.

**4340 Augmentative Communication Systems. (3-0)** Designed to review methods of non-oral communication as applied to hospital, rehabilitation, and special school settings. Use of electronic communication systems emphasized. Prerequisites: CDIS 2370 or equivalent.

**4344 Clinical Practicum in Communication Disorders. (1-4)** Supervised clinical practicum in speech-language pathology. Must be taken each semester student participates in any supervised clinical practicum in speech-language pathology. Prerequisites: CDIS 1331, 2459, 2370, 3462 and 3466 or equivalent, or permission of the Clinic Director.

**4350 Survey of Neurogenic Communication Disorders. (3-0)** This course provides an introduction to acquired speech, language, cognitive and swallowing disorders resulting from brain injury. Basic neuroanatomy and physiology are reviewed, followed by discussion of the etiology, diagnosis, treatment, and prognosis of these disorders. Emphasis is placed on aphasia, dysarthria, apraxia of speech, right hemisphere syndrome, traumatic brain injury, dementia, and dysphagia. Prerequisite: CDIS 4412

(WI) **4370 Aural Rehabilitation. (3-0)** Principles and procedures in the habilitation and rehabilitation of hearing impaired children and adults. Prerequisites: CDIS 4420.

**4371 The Communicatively Disordered Child in the Family. (3-0)** Emphasizes the impact that the speech, language and hearing impaired child has on the family. Remedial strategies for enhancing communication skills and behavioral management within the home environment.

**4412 Neuroanatomy for Communication Disorders. (4-0)** This course examines the brain, spinal cord, and peripheral nervous system. Significance of the areas of the nervous system that are primary or secondary for speech, language and hearing are the main focus of this course.

**4420 Introduction to Audiology. (3-2)** Relates anatomy and physiology of the auditory system and the science of acoustics to the study of normal and pathological auditory function. Laboratory experience in administration and interpretation of audiological tests. Discussion of professional opportunities in the field of audiology and provision of audiological service to special populations. Prerequisite: CDIS 2469.

**4469 Speech Science. (3-2)** Normal processes of speech production will be addressed from anatomic, physiologic, kinematic, aerodynamic, acoustic, and perceptual perspectives. Measurement and analysis techniques, instrumentation, and experimental paradigms used to study speech production and perception will be emphasized. Prerequisites: CDIS 2459 and 3325.

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**

## Department of Health Administration

*Chair and Associate Professor-Sorensen. Professors-Burke, Green, Welborn. Associate Professors-Khoury, Mooney, Nowicki, Renick, Summers. Assistant Professor-Brady.*

### Liability Insurance

1. Students who participate in the clinical or internship portions of the Health Administration program are required to purchase liability insurance or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the departmental office.

### Immunization Requirements

It is a policy of the School of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the departmental office.

### Healthcare Administration Program

The undergraduate healthcare administration program integrates healthcare management theory and practice, and prepares graduates to assume entry and/or mid-level management positions in healthcare settings such as hospitals, health maintenance organizations, home health care agencies, group practices, ambulatory care centers, and hospices.

Students can receive credit toward the degree for prior training in allied health credentialled areas such as nursing, dental hygiene, and others. For those students without prior healthcare training, some additional support courses are required. The program has full membership in the Association of University Programs in Health Administration.

The Department of Health Administration also offers the master's degree in Healthcare Administration, a program accredited by the Accrediting Commission on Education for Health Services Administration.

### Admission Process

**Phase I:** Any student in the University may declare Pre-Healthcare Administration as the major. To declare Pre-Healthcare Administration as a major, contact the Department Administrative Assistant at (512) 245-3556 or come by the Department Office in Room 250 of the Health Science Building.

**Phase II:** Pre-HA students will be admitted to the Healthcare Administration major and file a degree plan with the Chair of the Department when

- a. they have completed all General Studies requirements plus statistics (HP 3302, PSY 3301, SOCI 3307 or equivalent).  
**Note: in the event that students need additional coursework in the semester prior to admission to the Healthcare Administration major, students may take support courses (ECO 2301/2320, HP 3351/CS 1308/CIS 1323, HIM 2360), minor courses, electives, or the following course in their major: HA 3308.**
- b. and have a SWT GPA of 2.50 to be unconditionally admitted. Unconditionally admitted students are not required to obtain schedule approval from their advisor; however, the advisor is available for career counseling.

- c. or have a SWT GPA of 2.25-2.49 to be conditionally admitted. Students who are conditionally admitted must make a 2.50 GPA or better with a grade of “C” or better in the following four courses before taking any other courses in the major: HA 3308, HA 3341, HA 3324, and HA 3375. Conditionally admitted students must obtain schedule approval from their academic advisor prior to registration.

**NOTE: conditionally admitted students may repeat each course once, and only once, in order to improve their grade or improve their four-course GPA.**

**Phase III:** To be allowed to enroll in the internship course(s) (HA 4440 and HA 4441), the student must:

- a. for HA 4440, have completed all junior year courses in the major with grades of “C” or better in each course and a 2.25 GPA or better in the major.
- b. for HA 4441, be enrolled in the last semester of work in the major and have grades of “C” or better in each course in the major and a 2.25 GPA or better in the major.

**Phase IV:** To be allowed to graduate with a BSHP degree, a student must:

- a. complete all required courses.
- b. have a grade of “C” or better in each major course.
- c. have a 2.00 SWT GPA or better and 2.25 GPA or better in the major.
- d. have met University residence requirements.
- e. pass a comprehensive exam administered in HA 4441.

**NOTE:** students may repeat HA classes once, and only once, in order to improve their grade or major GPA. Students who must repeat HA classes are encouraged to seek assistance from the instructor, their advisor, or chair-appointed mentor.

## **Bachelor of Healthcare Administration\***

### **Major in Healthcare Administration**

**(Minimum required: 128 semester hours)**

#### **Freshman Year**

Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics 1315.....	3
Philosophy 1305 .....	3
Phy. Fitness Perspective (2 courses)* .....	2
Social Science*.....	3
Natural Science* .....	7-8

**Sophomore Year**

Art, Dance, Music, or Theatre 3313 .....	3
Economics 2301 or 2320 .....	3
*English Literature .....	3
Health Administration 2310 .....	3
Health Information Management 2360.....	3
Health Professions 3302 or equivalent .....	3
Health Professions 3351 or CIS 1323 or CS 1308 .....	3
International Perspective*.....	3
Political Science 2310, 2320 .....	6
Electives/Minor**.....	5

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**Junior Year - 1st semester**

Health Administration 3308 .....	3
Health Administration 3341, 3324, 3375.....	9
Electives/Minor**.....	3

**Junior Year - 2nd semester**

Health Administration 3327 .....	3
Health Administration 3329, 3340 .....	6
Marketing 3343 .....	3
Electives/Minor**.....	3

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### Senior Year - 1st Semester

Health Administration 4302 .....	3
Health Administration 4312, 4315 .....	6
Health Administration 4440 .....	4
**Electives/Minor .....	3

### Senior Year - 2nd Semester

Health Administration 4320, 4376 .....	6
Health Administration 4441 .....	4
Electives/Minor** .....	3

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\*See General Studies requirements on page 60.

\*\*Up to sixty-five hours of credit may be given for prior allied health education.

NOTE: Any student who graduated from high school after January 1988 and did not complete two years of the same foreign language is required to take 6-8 hours of foreign language.

## Courses in Health Administration (HA)

**2310 Ethics in the Health Professions. (3-0).** This course introduces the student to a sound foundation in well-established ethical theories and a familiarity with terms, concepts and issues in ethics as applied to the health professions. The course also provides practical methods for proceeding from considered reflection to informed action in solving ethical problems.

**3308 Healthcare Organization. (3-0)** Overview of the healthcare system and the role hospitals have played and continue to play in the future. Analysis of organizational structure of a hospital and other healthcare agencies, administrative and management elements necessary for policy determination, decision making, and control to achieve institutional goals and objectives.

**3327 Essentials of Healthcare Law. (3-0)** This course includes a review of laws pertaining to the legal responsibilities of the physician, nurse, health care institutions, and the variety of health care workers who contribute to patient care. Also included will be a broad review of legal liability for professional negligence. A portion of the course will be devoted to a clinical study, within the health care institution, of the ethics of medicine as they affect the interpersonal relationship of the physician, patient, the health care worker, and the institution.

**3329 Human Resources in Healthcare Management. (3-0)** Human resource management as applicable to the healthcare field. Human resource planning, staffing, job requirements, job descriptions, sources of labor supply, training and education programs, salary administration, employee communications, legal considerations, union-management relations. Prerequisite: HA 3324.

(WI) **3324 Supervisory Management for Healthcare Managers. (3-0)** Introduction to the following functions of supervisory planning, organizing, staffing, influencing, and controlling; as well as the connective processes of decision-making, coordinating, and communicating in healthcare organizations.

**3340 Management of Health Information Systems. (3-0)** Provides an introduction to information systems for healthcare facilities and agencies. Covers determining what information is needed by whom; designing information flows, procurement of computer/telecommunication resources, assuring information security, and continuing management of information systems supporting healthcare delivery.

(WI) **3341 Training and Professional Development in Healthcare. (3-0)** This course examines the training and professional development processes as applied to the healthcare industry. Emphasis is placed on staff developments, need analysis, task analysis, development of training and continuing education programs for healthcare personnel.

**3375 Principles of Accounting for Healthcare Managers. (3-0)** Provides an introduction to accounting useful in healthcare facilities and agencies, and demonstrates the application of accounting principles and techniques in the healthcare field. Prerequisites: ECO 2301 or 2320 and HP 3302 or equivalent.

**\*4121 Problems in Health Administration. (1-0)** In-depth study of a singular problem considered to be of immediate concern to the health care industry. Special emphasis is placed on problems unique to managers in the field of health administration.

**\*4221 Problems in Health Administration. (2-0)** In-depth study of a narrow range of topics considered to be of immediate concern to the health care industry. Special emphasis on problems unique to managers in the field of health administration.

(WI) **4302 Managed Care Organization and Administration. (3-0)** A comprehensive study of alternative delivery systems and managed competition in healthcare. Analysis of managed care operations, including legal and regulatory issues, delivery system negotiation and contracting, general operations and marketing, underwriting and finance, medical management, and special topics like competition and antitrust considerations.

(WI) **4303 International Health. (3-0)** An examination of various approaches used by international health systems related to organization, delivery, financing, development of resources, planning, and regulation. Course will give attention to changing ideologies and values of various countries as they relate to health care.

**4312 Materials and Logistics Management for Health Services. (3-0)** This course is a study of materials and logistics management for health services. The cost and control of goods, services, and equipment has a significant impact on the viability of the healthcare business. Students will learn how to apply qualitative measures to control, analyze, and manage inventory, purchases, supplies and capital equipment purchases. Prerequisites: HA 3308 and HA 3375.

(WI) **4315 Health Services Problem Solving and Decision Making. (3-0)** An introduction to methodologies used to seek solutions to health administration problems which affect technical and professional personnel. Designed to place emphasis on techniques most directly applicable to models of administration and management decision making. Prerequisites: HA 3324, HP 3302 and HP 3351 or their equivalents.

(WI) **4320 Seminar in Health Administration. (3-0)** Current trends and problems in health administration which affect health administration technical and professional personnel. Designed to place emphasis in selected areas of administration and management. Research paper and presentation is required of each student. Prerequisites: HA 3308, 3329, 3341, 3375

**4331 Patient Financial Services Management I. (3-0)** This course is designed to provide an overview of the activities related to the management of a health care facility's Patient Financial Services. Emphasis is placed upon office management, quality assurance, productivity improvement, systems design, budgetary control, cash management, public relations, accounts receivable management and other responsibilities of the Patient Financial Services Manager. Research paper and presentation is required of each student.

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\*May be repeated with permission of department chair.

**4332 Patient Financial Services Management II. (3-0)** Emphasis is placed upon the effective management of a health care delivery system's Patient Accounts Receivable. The course examines the payment methods and procedures of a variety of third-party payors (Medicare, Medicaid, Blue Cross, Workmen's Compensation, etc.) Special emphasis is placed upon the interrelationships between the health care institutions, physician's office, patient, third-party payor representative, medical records, as well as collection agencies.

**4333 Patient Financial Services Management III. (3-0)** This course is designed to familiarize the student with the working knowledge of the broader aspects of the health care arena and the dynamic interaction with this area of specialization. The course is also designed to familiarize the student with the types of Patient Financial Services and Patient Account Management certification programs, and to assist in the preparation of taking these professional examinations. Prerequisites: HA 4331 and HA 4332.

**4376 Financial Management for Healthcare Managers. (3-0)** A concentration in the fundamentals of healthcare financial management including the financial organization of non-profit facilities, sources of operating revenue, management of working capital, and the allocation, control and analysis of resources. Prerequisites: ECO 2301, HA 4375 or approval of instructor.

**4440 Practicum Internship A. (0-16)** Students with specialization in management participate in a health services based practicum. Experiences in providing opportunities for observation, participation, and practical application of administrative or management skills in the institutional setting are required. Prerequisites: Must have a 2.25 major GPA and have completed all junior year major courses.

**4441 Practicum Internship B. (0-16)** Studies tailored to the particular interests and needs of individual students. A variety of experiences may be used to enrich the program for the student with special needs or demonstrated competencies. Students are required to successfully pass a departmental comprehensive examination given at the end of this internship. Prerequisite: Final semester of study.

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**

## Department of Health Services and Research

*Chair and Associate Professor-Johnson. Professors-French, Juarez. Associate Professors-Boone, Knox, Upchurch. Assistant Professor-DeMouy.*

### Liability Insurance

1. Students who participate in the internship portions of the Long Term Health Care Administration program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the departmental office.

### Immunization Requirements

It is a policy of the School of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the departmental office.

### Health Services and Research

The Department of Health Services and Research includes three majors important to health care: the undergraduate major in Long Term Health Care Administration, and graduate majors in Healthcare Human Resources and Allied Health Research. The graduate program in Healthcare Human Resources prepares graduates for careers in human resource development or management, as well as many positions in community health. Allied Health Research prepares students in applied statistics, management science, epidemiology, and computer applications in health. Information on the graduate majors can be found in the Graduate Catalog.

### Long Term Health Care Administration

The major in Long Term Health Care Administration prepares graduates for administrative careers in a variety of settings within the long term care industry. The curriculum prepares students to meet requirements for licensure as nursing home administrators in Texas and also includes a focus on assisted living management. The curriculum is approved by the Texas Nursing Facility Administrators Program and was one of the first two programs to receive national approval by the National Association of Boards of Examiners for Nursing Home Administrators.

### Minor in Long Term Health Care Administration

The long term health care administration minor offers an additional option for those students interested in health care administration and other related fields. The LTCA minor requires 21 hours, including LTCA 3308 or 3325, LTCA 3322, 3323, 3324, 4315, 4320, and 4335. Students seeking licensure must also complete three semesters of LTCA 4681 and have a baccalaureate degree.

### Admission Process

**Phase I:** Any student in the University may declare Pre-Long Term Health Care Administration as their major. Each declared major will be assigned a faculty adviser. The adviser is available for ongoing academic advising.

**Phase II:** Each pre-LTCA student will be admitted to the Long Term Health Care Administration major and file a degree plan application with the Chair of the Department if:

- a. they have completed the following 55 semester hours: 49 semester hours of General Studies courses (to include Eng 1310, 1320, and Math 1315 or 1319 or their equivalents), and HP 1310 and HP 3302 or their equivalents.
- b. They have a SWT GPA of 2.25

**Phase III:** To be allowed to enroll in the internship course(s) (LTCA 4681) the student must:

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<b>a.</b>	<b>have at least a “C” in all major and supportive courses (LTCA, HA and HP)</b>
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**Phase IV:** To be allowed to graduate with a BSHP degree, a student must:

- a. complete all required courses
- b. have at least a “C” in all major and supportive courses (as indicated above)
- c. have a 2.00 GPA in all SWT work and a 2.25 GPA in the major
- d. have met University residence requirement

## **Post-baccalaureate Certificate Program in Long Term Health Care Administration**

Students who already hold a college degree may complete requirements for licensure as nursing home administrators by the Texas Nursing Facility Administrators Program, and meet requirements for certification by Southwest Texas State University by completing 27 hours of courses, including LTCA 3322, 3323, 3324, 3325, 4315, 4335, and three semesters of LTCA 4681. Students completing these courses will receive a certificate recognizing their completion of this body of knowledge. All post-baccalaureate students are encouraged to complete these requirements in order to prepare themselves in the best manner possible for licensure and service as a nursing facility administrator. These requirements will strengthen the candidate in the areas of financial management and resident care.

## **Bachelor of Science in Health Professions Major in Long Term Health Care Administration (Minimum required: 130 semester hours)**

### **Freshman Year**

Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
Health Professions 1310 .....	3
History 1310, 1320 .....	6
Mathematics 1315.....	3
Natural Science* .....	7-8
Phy. Fitness Perspective (2 courses).....	2



**Sophomore Year**

Art, Dance, Music, or Theatre 3313 .....	3
Economics 2301, 2310 or 2320 .....	3
English Literature* .....	3
International Perspective *.....	3
Health Info Management 2360 .....	3
Health Professions 3302 .....	3
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Social Science* .....	3

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**Junior Year - Summer**

Electives .....	6
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**Junior Year - Fall & Spring**

Health Administration 3327 .....	3
Accounting 2361 or HA 3375 .....	3
Select 3 hours from:.....	3
Health Administration 4312, 3341, 3340 or Health Professions 3351 Long Term Health Care	
Admin. 3322, 3324 .....	6
Long Term Health Care	
Admin. 3308, 3325.....	6
Long Term Health Care	
Admin. 4320, 4315.....	6
Select 3 hours from:	
Sociology 3383, Psychology 3313 or Social Work 4320 .....	3
Elective .....	3

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**Senior Year - Summer**

Long Term Health Care

Admin. 4681 ..... 6

**Senior Year - Fall & Spring**

Long Term Health Care

Admin. 3323, 4311 ..... 6

Long Term Health Care

Admin. 4335, 4338 ..... 6

Long Term Health Care

**Admin. 4681, 4681** **12**

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\*See General Studies requirements on page 60. NOTE: Any student who graduated from high school after January 1988 and did not complete two years of the same foreign language is required to take 6-8 hours of foreign language.

## **Courses in Health Professions (HP)**

**1310 The Health Care System and Professionals. (3-0)** Comprehensive study of the professional fields, their relationship to each other, and professional responsibilities. Structure of health care system including hospital organization, health care agencies, role of the government, and professional ethics.

**2310 Contemporary Issues in Health Care. (3-0)** This course is an introduction to contemporary issues in health care important to both future health professionals and informed health care consumers. Course activities will focus on solutions to problems of access, quality, and cost.

**3302 Statistics for the Health Professional. (3-1)** An introduction to major statistical concepts and methods as applied in the health field. Topics include: (1) nature and use of health care statistical data, (2) biodemographic epidemiology data, (3) descriptive and inferential statistics, and (4) an introduction to computers and statistical packages in a lab format. Prerequisite: Mathematics 1315.

\* **3311 Topics in Health Care. (3-0)** An examination of emerging trends or issues important to health care. Topics may vary from semester to semester, and the course may be repeated for credit with a different area of study.

**3351 Application of Computers in the Health Professions. (2-3)** An introduction to the application of software packages and hardware as they relate to the health care industry. Applications such as database management, spreadsheets, word processing, graphics, desktop publishing, and telecommunications are introduced. An introduction to health information systems, networks and data analysis are also introduced.

## Courses in Long Term Health Care Administration (LTCA)

\* **3111 Independent Study in Long Term Care Administration. (1-0)** Independent study related to long term care administration under the direct supervision of a faculty member.

(WI) **3308 Nutritional, Social, and Environmental Aspects of Geriatric Care.**

**(3-0)** This course is designed to provide the administrative aspects of nutritional services, social and activity services, and environmental control services of long term care facilities. Administrative requirements and the Omnibus Budget Reconciliation Act regulatory responsibilities will be emphasized.

**3320 Trends & Issues in Long Term Care. (3-0)** A course designed to provide the student with opportunities to explore current trends and issues in the long term health care industry. Special emphasis will be placed on an indepth study of selected topics. This course may be repeated for credit if area studied is different.

(WI) **3322 Organization of Long Term Health Care Facilities. (3-0)** Discussion of the history, philosophy, and purposes of long term health care facilities. Analysis of organizational models. Comparative analysis of ownership structures and options including both private and corporate designs.

**3323 Regulatory Aspects of Long Term Health Care. (3-0)** Focuses specifically on regulations regarding the operation of long term health care facilities as promulgated by both the federal and state governments. Reviews the minimum requirements for Licensure and the Standards for Participation for Medicaid Certification in Nursing Facilities in the state of Texas. Also discusses specific activities and functions regarding accountability and enforcement procedures.

(WI) **3324 Management of Long Term Health Care Facilities. (3-0)** Overview of management theories and concepts with specific applications to long term health care facilities. In-depth discussion of a wide variety of areas, the management of individual departments, line and staff relationships, staffing patterns, policy and procedures, formulation, planning, coordination, control, and communication.

**3325 Principles of Long Term Care Practice. (3-0)** Administrative-oriented content related to nursing care, quality assurance and geriatric pharmacology utilized in long term care facilities. The course content reflects the relative legislative requirements mandated for nursing homes and other long term care facilities.

**4311 Elements of Design for Long Term Care Environments. (3-0)** Principles of design and construction requirements for long term care facilities. Exterior and interior design essentials, to include barrier free, design problems related to dementia and design and renovation issues for the frail elderly.

**4315 Interdisciplinary Principles of Resident Care. (3-0)** Focuses on interdepartmental services and the necessary interrelationships to insure quality patient care. Discusses methods to establish and maintain the requisite relationships. Includes a review of policies and procedures involved in the provision of therapeutic long-term health care. Emphasizes the principles of the identified individual therapies. Suggests systems to facilitate the integration of the therapies into the patient's therapeutic regimen.

**4320 Resident, Family, and Community Relationships. (3-0)** Identifies and discusses the requisite components for establishing and maintaining effective and productive relationships with residents and their families and also with members of the community. Explores the dynamics involved in the long-term health care environment and discusses approaches involving the utilization of family and community resources to maximize the quality of life for each resident/patient.

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\*May be repeated with permission of department chair.

**4321 Internship/Practicum. (0-6)** Management-centered internship supervised by a preceptor-administrator approved by the Texas Board of Nursing Facility Administrators. Internship must be served in a currently licensed and approved facility. Includes classroom processing of field experiences to interrelate the didactic and clinical components of the experience. Must be repeated for credit as required in the curriculum. (Capstone course).

Practicum component may be utilized to meet the needs of students who have successfully completed an approved internship as a part of a previous program. Practicum includes management-oriented experiences designed to provide additional opportunities for observation, participation, and practical application of administrative skills in a long-term health care facility. Student must secure permission from the program director before enrolling in the Practicum. Must be repeated for credit as required in the curriculum.

**4335 Financial Management of Long Term Care Facilities and Services.**

**(3-0)** Reimbursement theory and methodology relative to medicaid, medicare, and other alternative long term care programs or services. Approaches to revenue enhancement through managed care systems and other contractual arrangements. Preparation and analysis of financial reports. Budget preparation. Analysis of per patient day statistics and trends. Census building and marketing from a financial perspective.

**4338 Administrative and Clinical Assessment of the Geriatric Client. (3.0)** Requirements of assessment including medical eligibility and financing mechanisms. Principles of assessment relative to the Omnibus Budget Reconciliation Act, the Minimum Data Set, and the TILE system. Methods of assessment including reviews of resident records, family interviews, resident observations, laboratory tests and disease entities. Review of provider roles in the assessment process. Discussion of resource limitations and ethical aspects.

**4681 Internship. (0-24)** This is a management-centered internship served in a licensed and approved long-term care facility. The course is designed to prepare the student for the position of administrator of a long-term care facility through active participation in administratively focused field experiences. This course is to be taken in the last three semesters with advisor approval, and repeated as needed to meet requirements for licensure by the Texas Board of Nursing Facility Administrators. Credit/Fail. Prerequisite: First enrollment: LTCA 3322, second enrollment: LTCA 3325, maintain a minimum grade of "C" in all major (LTCA) and support courses taken at SWT GPA of 2.25.

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**

## **Department of Physical Therapy**

*Chair and Professor- Sanders. Associate Professors-Hunter, Melzer. Assistant Professors-Bezner, Boucher, Instructors-Keely, Pape.*

The Department of Physical Therapy is a graduate department offering a Master of Science in Physical Therapy. While the department offers no undergraduate degree, it does provide advisement to students interested in pursuing a graduate degree in Physical Therapy.

The requirements for admission include: 1) completion of a baccalaureate degree with a minimum 3.00 GPA in the last 60 hours of course work completed for that degree; 2) minimum 3.00 GPA in all science courses; 3) minimum GRE of 1000; 4) completion of all prerequisite courses, including general psychology, abnormal or developmental psychology, management, statistics, medical terminology, general zoology, human physiology and anatomy, vertebrate physiology, general chemistry I and II, and general physics I and II.

Students interested in learning more about physical therapy requirements should call the Academic Advising Center at 512/245-3506.

### **Courses in Physical Therapy (PT)**

**3610 Gross Anatomy. (3-9)** Structural and functional aspects of regions of body study emphasized by means of dissection of human cadavers, lectures and demonstrations. Clinical significance of anatomical structures stressed.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Catalog.**

## Department of Respiratory Care

*Chair and Associate Professor-C. Harkins. Associate Professors-Harford, L. Harkins, Jenkinson, Klepper, Lore, Marshall, Mazza. Assistant Professor-Hagus. Medical Director-Handley. Instructor-C. Wharton. Clinical Professor-Petroff. Lecturers-Barnes, Little, Medina, Mollaei, Montoya, Morton, Paquette, Spector, Tovar, Villalobos. Clinical Faculty-Barker, Batten, Boultinghouse, Cox, Emody, Garza, Hall, Hoffman, Holman, Jones, Kloppe, Morris-Garcia, Welch, Wharton. SWT/HMC Consortium Faculty-Program Administrator-Riley, Program Director-Lawrence, Clinical Coordinator-Cusson, Medical Director-Walke.*

### Liability Insurance

1. Students who participate in the clinical portion of the respiratory care program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the departmental office.

### Immunization Requirements

It is a policy of the School of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the departmental office.

### Respiratory Care

The program in respiratory care prepares students to treat patients with deficiencies or abnormalities in respiration. Therapists work for hospitals, clinics, and home health agencies.

Respiratory care majors take classes on campus and gain clinical experience in area hospitals. RC courses must be taken in sequence if possible. Students taking courses prior to applying for admission to the RC program should see an RC adviser for counseling. Students who have completed an associate degree program elsewhere may be eligible for transfer to SWT's baccalaureate degree program. For information on this option, see the RC department chair. SWT's respiratory care program is accredited by the Commission Accreditation of Allied Health Education Programs (CAAHEP) and qualifies graduates to take the appropriate exams offered by the National Board for Respiratory Care when all requirements have been met.

### Admission Criteria

Application must be made to the program in respiratory care in addition to regular university admission procedures. All students entering this program must be accepted by both the university and the respiratory care program. All applicants will be notified of their admittance status. Enrollment in the respiratory care program is limited by student/faculty ratio in the clinical phases of the program. All respiratory care courses must be taken in sequence and must be passed with at least a "C" grade.

## Bachelor of Science in Respiratory Care Major in Respiratory Care (Minimum required: 137 semester hours)

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\*See General Studies requirements on page 60.

### Courses in Respiratory Care (RC)

**1135 Respiratory Care Clinical Laboratory I. (0-16)** Introduction to clinical skills, including vital signs, infection control procedures, and basic patient care techniques. This course prepares the student for direct patient care to be performed in more advanced courses.

**1245 Respiratory Care Clinical Laboratory II. (0-32)** Direct patient care is performed under close supervision in a non-critical setting. Routine procedures are performed, including delivery of aerosolized medications, oxygen therapy, incentive spirometry, postural drainage and chest percussion.

**1313 Introduction to Respiratory Care. (3-0)** Introductory course to field of respiratory care. Designed to acquaint student with responsibilities of technician as a member of health team. Airway management, gas therapy, and humidity therapy will be covered.

**1314 Respiratory Care Instrumentation I. (3-0)** Designed to teach the design, function, and operation of basic respiratory care equipment. Regulators, flow meters, humidifiers, and nebulizers will be covered.

**1315 Basic Technology in Respiratory Care. (3-0)** Designed to teach students basic principles of respiratory care techniques and basic operations of equipment. Artificial ventilation, cardiopulmonary resuscitation and chest physiotherapy will be covered.

**1316 Respiratory Care Instrumentation II. (3-0)** Acquaints students with concepts of design, function, and operation of more advanced respiratory care equipment. Pressure cycled ventilators, spirometers, airways, cardiopulmonary resuscitation equipment will be covered.

**1321 Introduction to Pharmacology. (3-0)** Designed to familiarize students with general principles of drug action methods of administration, elements of dispensation and with adverse reactions to drugs. This course is specifically designed for respiratory care practitioners.

**2311 Cardiopulmonary Disease I. (3-0)** Introduction to the assessment and treatment of the patient with respiratory disease. The course focuses on the signs, symptoms, causes, and treatment of chronic obstructive pulmonary disease, diseases of the nervous system, respiratory muscles and occupational lung diseases. In addition, the assessment and treatment of patients with cardiopulmonary disease to include restrictive lung disease, cardiac disease, infectious disease, and lung cancer.

**2326 Topics in Respiratory Care. (3-0)** Designed to survey respiratory therapy problems and related topics. Students will review multiple written and simulated examination material.

**2352 Cardiopulmonary-Renal Anatomy and Physiology. (3-0)** Detailed study of the structure and function of the respiratory, cardiovascular, and renal systems. Prerequisites: Biology 2430 or instructor approval.

**2355 Respiratory Care Practice I. (0-16)** Student gains skill in clinical procedures, interactions with patients and professional personnel as he practices, under supervision, respiratory care therapeutic modalities in a healthcare setting. Becomes familiar with various RT aspects of patient care as presented in medical/surgical and pediatric clinical situations.

**2365 Respiratory Care Practice II. (0-16)** Students will perform respiratory therapy procedures in a healthcare institution under the supervision of a Respiratory Therapist. Preparatory instruction is provided for mechanical ventilation and other primary critical care procedures.

**2375 Respiratory Care Practice III. (0-16)** A supervised clinical education experience in which the student organizes and administers advanced respiratory therapeutics on assigned patients in adult critical care. Diagnostic procedures, including arterial blood gas procurement and measurement, bedside physiologic monitoring, airway care, basic pulmonary function testing, as well as monitoring and maintenance of ventilator parameters are performed.

**3330 Advanced Respiratory Care Technology. (3-0)** In-depth study of respiratory physiology comparing the cardiopulmonary system of the adult, infant, and fetus. Emphasis is placed on how to evaluate, treat and monitor patients with respiratory insufficiency or failure.

**3331 Advanced Respiratory Care Instrumentation. (3-0)** A comprehensive focus on advanced equipment and rehabilitation technology utilized in the critical care, homecare, pulmonary rehabilitation and blood gas lab settings. Lectures and class activities will detail hardware for hemodynamic monitoring, supplemental oxygen administration, noninvasive monitoring, blood gas measurement, quality control, quality assurance and various other support advances in healthcare.

**3352 Advanced Ventilator Concepts. (3-0)** In-depth study of specific ventilators used in adult, pediatric and neonatal ventilation to include ventilator classification, method of operation, parameter interrelationships and ventilator patient monitoring. Lectures and class activities will focus on ventilator analysis of several contemporary volume, time, pressure, and flow-cycled ventilators.

**3365 Respiratory Care Practice IV. (0-16)** Advanced clinical education in the intensive care setting in which the student monitors and administers critical care therapeutics on assigned patients in the adult and neonatal intensive care setting. Physician input and pulmonary rounds assist the student in theory and application of care for the critically ill patient.

**3375 Clinical Observation. (0-16)** Through affiliations with agencies, hospitals and selected treatment centers the student accompanies a healthcare specialist and observes patient treatment and diagnostics in homecare, cardiac catheterization, pulmonary rehabilitation, pulmonary function testing, hyperbaric medicine and other progressive healthcare specialties.

(WI) **3411 Applied Pathology. (3-4)** Lecture series and case presentation related to pathophysiology, etiology, symptoms, diagnosis and treatment of selected pulmonary disease entities, cardiac diseases, neurologic disease processes and occupationally acquired disease entities as they relate to respiratory function. Laboratory includes clinical patient assessment, diagnostic data gathering and observation of proper approach to the care of the cardiopulmonary patient.

**4220 Cardiovascular and Pulmonary Diagnostics. (2-0)** Examination of non-invasive monitoring technology in respiratory care, hemodynamic monitoring, acid-base interpretation of blood gas and application, and pulmonary function test interpretation.

**4246 Respiratory Care Internship. (0-16)** Provides the student with opportunities to gain clinical experience in specialty areas to include pediatrics, adult critical care, neonatal intensive care, pulmonary function diagnostics, home care, subacute care, pulmonary rehabilitation or polysomnography. Specific specialty offerings will be based on clinical availability.

**4315 Neonatal Respiratory Care. (3-0)** In-depth study of neonatal intensive care, pediatric/neonatal respiratory emergencies, chronic pediatric respiratory diseases, fetal lung development, fetal circulation, changes at birth, neonatal respiratory disease and its management, congenital defects and other related aspects.

(WI) **4320 Contemporary Issues in Cardiopulmonary Care. (3-0)** This course is designed to prepare senior-level students for the dynamic evolution of respiratory care as a profession. It will build on previous didactic courses and clinical experiences. It will examine opportunities for respiratory therapists in continuing care and home care and also cover the impact and role of legislation, regulations, professional organizations and politics in respiratory care. Ethics of patient care and professional behavior will be explored.

**4330 Pulmonary Rehabilitation. (3-0)** An introduction to medical, ethical, and reimbursement issues of respiratory care pulmonary rehab and home care. The role of the therapist in cost containment, treatment requirements, and discharge planning will be addressed. Frequently applied respiratory and durable medical equipment will be discussed in detail.



(WI) **4341 Respiratory Care Seminar. (3-0)** Individual and group presentation of selected case studies by the student to physicians, therapists and other students. Emphasis placed on total patient management with etiology, symptoms, pathophysiology, diagnosis, and treatment of specific diseases such as asthma, pulmonary edema, CHF, CF, COPD, ARDS, neurologic diseases, pulmonary fibrosis, pneumonia, bronchiectasis, AIDS and drug overdose.

## Department of Social Work

*Chair and Associate Professor-Brown. Professors-Chavkin, Smith. Associate Professor-Hawkins. Assistant Professors-Chahin, Gleason-Wynn, Knox, Murray, Selber. Lecturers-Harris, Henton, Rondero.*

### Liability Insurance

1. Students who participate in the internship portions of the Social Work program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the departmental office.

### Immunization Requirements

It is a policy of the School of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the departmental office.

### Minor in Social Work

A minor in social work requires 18 semester hours, including Social Work 1350, 2375, 3355, plus 9 semester hours of social work electives excluding Social Work 3340, 3430, 3435, 4305, 4425, 4645, 4650. This minor gives students an awareness of problems, conditions, and value systems existing in our society. It further introduces them to knowledge that enhances their functioning in their chosen major fields. It does not prepare them for professional social work practice nor provide them the eligibility requirements for licensure as social workers by the State of Texas or certification by the National Association of Social Workers.

### Social Work

The Bachelor of Social Work degree with a major in Social Work is offered to students who wish to prepare themselves for entry level professional social work practice or secondarily for admission to a graduate program of social work. Social Work students must maintain high scholastic standards. They must also develop the capacity to work with people from all walks of life and be sensitive toward all people and the many problems they face. This undergraduate major is fully accredited by the Council on Social Work Education. Completion of the major prepares students for entry level professional social work practice and to apply for licensure by the State of Texas.

### Admission Process

The degree requirement for a major in Social Work is 45 hours in Social Work and 21 hours in supportive Social Sciences. The social work curriculum is based on and interwoven with the liberal arts/general studies foundation consisting of 67 semester credit hours. The major in Social Work does not require the student to have a minor. Progress through the social work program consists of three phases. No student is ruled out of any phase of the program on the basis of physical disability. Students may be advised to consider another major when they apply for admission to Phase II or any point after admission if they lack the emotional or mental stability, adequate communication skills, interpersonal relationship skills, or the level of self awareness necessary to pursue a social work career as judged by the social work faculty. Criteria used by the faculty to make such judgments include: instructors' evaluation of a student's adherence to the National Association of Social Workers' Code of Ethics; instructors' evaluations of student's performance in practice situations.

**Phase I.** (Pre-Social Work Major) Any student may declare a pre-social work major. Social work pre-majors may enroll in Social Work 1350, 2375, Social Work elective courses and general studies/liberal arts foundation courses. Social work pre-majors should complete most of their general studies/liberal arts courses before applying for admission to Phase II of the social work major. They must complete at least 45 credit hours, including the following: Comm 1310; Eng 1310 and 1320; Math 1315 or 1319; Phil 1305; SOWK 1350 and 2375; and GNST 1100, if required. Applicants must have attained a minimum 2.00 overall GPA and a minimum 2.25 GPA in SOWK and supportive Social Science courses to be eligible to apply for Phase II.

**Phase II:** (Social Work Major) Admission into Phase II requires that the student submit a formal application. Applicants are responsible for submitting the completed application by the designated deadlines. Applicants will be screened by an admissions committee and informed in writing of the decision. Academic record and suitability for social work practice will both be considered. Possible decisions are admission, conditional admission, or denied admission.

Upon admission into Phase II of the BSW program, a student's formal academic major is converted from Pre-Social Work to Social Work. An official degree outline is part of the application.

Admission into Phase II does not guarantee permission to remain in it. Majors' progress will be assessed each Fall and Spring semester by the Social Work faculty. Retention requires that the student maintain his or her minimum grade point average. Students must also earn a minimum grade of "C" in each Social Work course and each supportive social science course. There is a limitation of two "repeats" of upper division social work courses. This means that a student may repeat one of the courses twice or two courses once. No student will be retained who must repeat upper division core courses in excess of this rule in order to maintain the minimum grade requirements. Majors must also demonstrate adherence to the NASW Code of Ethics, emotional/mental stability, adequate communication skills, interpersonal relationship skills, and levels of self awareness necessary to pursue a Social Work career.

**Phase III: (Internship)** Students who have completed all required courses for the BSW, excluding Social Work 4645 and 4650 (Internship), and who have met all the requirements noted above may apply for internship. They must also have applied for a degree summary in the Dean's Office. Application for internship is made with the Field Coordinator. Interns may not repeat Social Work 4645 or 4650 to maintain minimum grade requirements.

The student may choose to take two semesters of concurrent internship (SOWK 4645 the first semester and SOWK 4650 the second semester), or one semester of comprehensive internship, taking the two courses (SOWK 4645 and SOWK 4650) simultaneously. Students are encouraged to take SOWK 4645 and 4650, simultaneously. Students should restrict their course loads to 12 semester hours, including internship, during the semester(s) in which they are enrolled in SOWK 4645 or 4650 (concurrent plan). The comprehensive plan requires a full-time commitment to the internship which precludes taking any other courses.

## **Bachelor of Social Work Major in Social Work (Minimum required: 134 semester hours)**

### **Freshman Year**

*Communication 1310.....	3
*English 1310, 1320.....	6
*General Studies 1100.....	1
History 1310, 1320 .....	6
*Mathematics 1315 or 1319 .....	3
*Philosophy 1305 .....	3
Phy. Fitness Perspective (1 course) .....	1
Psychology 1300 .....	3
*Social Work 1350 .....	3
Sociology 1310.....	3

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### **Sophomore Year**

Biology 1420 .....	4
Chemistry 1410.....	4
English (Literature).....	6
Health Professions 3302 or Psychology 3301 or Sociology 3307.....	3
Modern Language 1410.....	4
Phy. Fitness Perspective (1 course) .....	1
Political Science 2310, 2320 .....	6
Psychology 2315 or Anthropology 3370 .....	3
*Social Work 2375 .....	3

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### **Junior Year**

Art, Dance, Music, or Theatre 3313 .....	3
Biology 2430 .....	4
Economics 2301 .....	3
Modern Language 1420, 2310.....	7
Political Science 3316 or 3320 or 4322 .....	3
Psychology 3331 or Sociology 3319.....	3
Social Work 3430, 3435, 3340, .....	11
Social Work elective.....	3

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### **Senior Year**

Elective .....	3
Modern Language 2320.....	3
Social Work Elective .....	3
Social Work 3355, 4305 .....	6

Social Work 4425 .....	4
Social Work 4645, 4650 .....	12

## Courses in Social Work (SOWK)

Social Work 1350 is a prerequisite to all other social work courses except Social Work 2375, 3339, 3355, 4315, and 4320.

**1350 (SOWK 2361) Introduction to Social Work. (3-0)** An introductory survey of the field of social work including the nature, function, and various types of social work practice. This course is designed to acquaint the student with the history, scope, and values of the profession of social work.

**2320 Love and Relationships. (3-0)** An exploration of the nature of attraction, friendship, love, and human sexuality. The primary purpose is to enable students to enhance their own personal and professional relationships through application of insights gained in this class.

**2375 Social Services in the Community. (3-0)** An introduction to the organizations and policies involved in social service delivery. Students participate as supervised observers and volunteers in selected social service agencies.

**3312 Alcoholism and Chemical Dependence. (3-0)** An introduction to the dynamics and treatment of alcoholism and chemical dependence. Its focus is the experience of alcoholism specifically and chemical dependence generally on the individual and on others whose lives are affected by that person. This course emphasizes clinical and direct practice issues.

**\*3339 Selected Topics in Social Work. (3-0)** This course is designed with the potential for timely presentation of topical subject matter in social work and the social services. Sub-titles and subject matter may well vary from one presentation to the next, but will remain within the confines of the social work discipline and its interests.

**3340 Social Work Research. (3-0)** A course designed to build foundation scientific research skills. Students develop critical thinking, knowledge of program and practice evaluation, and a philosophy of generalist social work practice. Prerequisites: Social Work 1350, 2375 and HP 3302 or PSY 3301 or SOC 3307, official social work major.

**3355 Social Legislation. (3-0)** A survey of social legislation pertaining to the social welfare and rights of the individual in today's society, the general legislative process, and social welfare policy.

(WI) **3430 Social Work Practice I. (3-1)** Social work practice from a generalist perspective with an emphasis on the mezzo and macro-levels of social work

intervention (i.e., working in and with task groups, grassroots organizations, and formal agencies). Data collection, assessment, intervention, planning/implementation, and evaluation are covered. Prerequisites: Social Work 1350, 2375, official social work major, junior standing, and permission of instructor.

(WI) **3435 Social Work Practice II. (3-1)** Social Work practice from a generalist perspective with an emphasis on the micro and mezzo-levels including data collection, assessment, intervention planning, and evaluation. Students study social work theory and practice methodology applied to problem solving with individuals, families, and groups. Prerequisites: Social Work 1350, 2375, official social work major, junior standing, and permission of instructor.

(WI) **4305 Seminar in Human Behavior and Social Environment. (3-0)** Exploration of the knowledge base for generalist social work practice. Emphasis is on integration of knowledge from the liberal arts, supportive social sciences, and empirical research needed to assess the behavior of individuals and collectives in interaction with their environments. The human life cycle is examined as a contributor to human diversity. Prerequisites: Supportive Social Science Courses, official social work major and Social Work 1350, 2375, 3340, 3430, 3435.

**4310 Social Services to Minorities. (3-0)** Exploration of the roots of minority social work practice and the quality of present day social work with minorities. Primary focus is on knowledge and skills necessary for effective practice with women and selected ethnic minorities of the Southwest (African Americans, Hispanics, Native Americans). Prerequisites: Social Work 1350 or permission of instructor.

**4311 Business and Stress. (3-0)** An introduction to occupational social work. Examines the social and psychological experience of work with emphasis on the human problems which arise in or result from work. Special emphasis on stress, alcoholism and other forms of chemical abuse, and Employee Assistance Programs.

**4315 Child Welfare. (3-0)** An analytical consideration of the various child welfare services available to children in their own homes, in substitute care, and through the community. The aspects of protective services, including neglect and abuse, day care, homemaker services, interpersonal counseling, and financial assistance are explored in terms of the role of the child welfare practitioner.

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\*May be repeated with different emphasis.

**4320 Social Work with the Aging. (3-0)** A comprehensive introduction to social problems affecting the elderly, intervention strategies, and service delivery systems. Contemporary social issues are examined with the context of societal values and ethical implications for generalist practice.

**4360 Directed Study in Social Work. (3-0)** A one-semester course of independent reading and study, individual instructional and discussion sessions, and individual projects. Open to superior students by invitation of the professor and with the consent of the director of social work. This course may not be repeated for credit. Prerequisites: Social Work 3430 and 3435.

(WI) **4425 Social Work Practice III. (3-1)** Social Work practice from a generalist perspective with an emphasis on developing students' interpersonal and communication skills. Students learn to translate theory into helping behaviors at all levels of social work intervention through discussion, practice, and feedback. Competence in specific skills for beginning field placement is the primary objective. Prerequisites: Social Work 3340, 3430, 3435, official social work major, senior standing, and permission of instructor.

**4645 Beginning Field Practice in Social Work. (1-20)** Interns are assigned to social service agencies to observe and engage in generalist social work practice. They are under the close supervision of professional social workers and the direction of a university based field coordinator. They must complete a minimum of 20 clock hours per week, during a fall or spring semester, attend regularly scheduled seminars, and complete weekly assignments. Prerequisites: Social Work 1350, 2375, 3430, 3435, 3340, 4425, senior standing, official social work major status, and application to field coordinator. (Capstone Course)

**4650 Field Practice in Social Work. (1-20)** This course is an extension of Social Work 4645 as it includes the application of advanced generalist techniques. Interns are under supervision of professional social workers and the direction of a university based field coordinator for a minimum of 20 clock hours per week during a fall or spring semester. They attend seminars and complete weekly assignments. Taken together, 4645-4650 constitute Comprehensive Field Practice. Prerequisites: SOWK 4425, official social work major, senior standing, and application to field coordinator. (Capstone Course)

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**

## Clinical Laboratory Science Program

*Program Chair and Associate Professor-Falleur. Professor-Caruana. Associate Professor-Kostroun. Medical Advisor-Young. Clinical Faculty-Ballard, Bar, Batiste, Boerger, Boriack, Brooks, Calhoun, Callaway, Cassel, Champion, Cobb, Cochrane, Crawford, Deen, Dehner, Dennis, Dobes, Erb, Farrar, Finney, Fisk, Fletcher-Bohrer, Flowers, Frakes, Furgerson, Garcia, D. Garza, M. Garza, Geltz, Gentzel, Grossman, Guinn, Gunnlaugsson, Hardee, Harris, Howard, Kinlund, Knight, Laney, Leggett, Lefebvre, Light, McCarty, McCurry, Moore, Murphy, Nafziger, Nilsson, Nokes, Pais, Pais, Pfeffer, Pruett, Reynolds, Riojas, Saegert, Stall, Stehlik, Stratton, Tamez, White, Yantis*

### Liability Insurance

1. Students who participate in the internship portions of the Clinical Laboratory Science program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the program office.

### Immunization Requirements

It is a policy of the School of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the program office.

### Clinical Laboratory Science

The clinical laboratory science program prepares students to function as clinical laboratory scientists or medical technologists in a wide variety of settings from physician office laboratories to modern tertiary care hospital laboratories. The clinical laboratory scientist can become an indispensable top-level laboratory worker, a supervisor, a specialist, a researcher, or an educator.

The fourth year of the program is 13 months in length and includes clinical study in laboratories affiliated with the university and advanced academic study in the clinical laboratory science disciplines.

The clinical laboratory science program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Graduates of the program are eligible to take the national certification examination given by the Board of Registry of the American Society of Clinical Pathologists and/or the National Certification Agency.

### Admission Process

Students are selected in the spring semester of their junior year for the senior year. Because of the limited number of students that can be accepted for the senior year, students are encouraged to maintain an overall grade-point average above 2.50. Acceptance into the university and declaration as a clinical laboratory science major does not imply that the student will be accepted for the senior year. The criteria for student selection for the senior year includes scholastic ability, particularly in the sciences, letters of reference, and a personal interview, and not on the basis of sex, race, color, religion, veteran status or condition of disability, national origin.

Applications for senior year must be submitted by March 1. Applicants will be notified of their status by May 31.

## Bachelor of Science in Clinical Laboratory Science Major in Clinical Laboratory Science (Minimum required: 142 semester hours)

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Freshman Year	
Biology 1410, 1420 .....	8
Chemistry 1410, 1420.....	8
Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Phy. Fitness Perspective (2 courses).....	2

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**Sophomore Year**

Biology 2430, 2440 or 3440 .....	8
Chemistry 2130, 2330, 2450.....	8
English (Literature)*.....	3
Health Information Mgt 2360 .....	3
Mathematics 1315.....	3
Philosophy 1305 or 3301 .....	3
Political Science 2310, 2320 .....	6

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**Junior Year**

Art, Dance, Music, or Theatre 3313 .....	3
Computer Science 1308.....	3
Health Professions 3302 .....	3
International Perspective*.....	3
CLS 2414, 3410.....	8
CLS 3412, 4223, 4424.....	10
Social Science*.....	3

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**Senior Year**

CLS 4322, 4326.....	6
CLS 4227, 4418, 4440, 4460.....	14
CLS 4340, 4463, 4470.....	11
CLS 4225, 4361, 4464.....	9

\*See General Studies requirements on page 60.

NOTE: Any student who graduated from high school after January 1988 and did not complete two years of the same foreign language is required to take 6-8 hours of foreign language.

## Courses in Clinical Laboratory Science (CLS)

**2414 Introduction to Clinical Laboratory Techniques. (3-3)** Clinical Laboratory Science students will be introduced to techniques, procedures, and instrumentation commonly used in the clinical laboratory.

**3410 Clinical Chemistry I. (3-6)** Designed to acquaint the clinical laboratory science student with some of the concepts, techniques, procedures, and instrumentation used in clinical chemistry.

**3412 Hematology/Coagulation I. (3-4)** Qualitative and quantitative evaluation of formed elements of the blood and studies in coagulation abnormalities. Prerequisites: Biology 2340, 2350, or 2430.

**4223 Body Fluids. (1-3)** Study of body fluids present in the various anatomical compartments of the body as they differ in health and disease. Chemical tests and microscopic examination of select body fluids are performed. Lecture and laboratory.

(WI) **4225 Laboratory Management and Supervision. (2-0)** Lectures and discussions of general principles of management and supervision of the clinical laboratory and its personnel.

**4227 Introduction to Clinical Practice. (2-0)** Discussion of professional and technical requirements for clinical laboratory science students and their role and responsibilities as a unit of the health care team.

**4321 Directed Study in Clinical Laboratory Science. (2-6)** An indepth study of a narrow range of topics or a related problem in the clinical laboratory sciences. Topics to be announced; may be repeated for credit when topics vary.

(WI) **4322 Computer Applications in Clinical Laboratory Operations, Management and Research. (2-3)** Study of clinical laboratory computer systems and programs utilized in quality assurance, data management and statistical analysis.

**4326 Medical Parasitology. (2-3)** Lecture and laboratory instruction in medically important parasites producing disease in humans with emphasis on epidemiology, life cycles, identifying characteristics, and pathology of these parasites.

**4340 Clinical Microbiology II (2-3).** Study of medically important fungi, viruses, chlamydiae, rickettsiae, and advanced topics in clinical microbiology. Automated identification of microorganisms, database management, and epidemiologic techniques will be discussed.

(WI) **4361 Clinical Laboratory Science Research. (1-6)** Directed independent research covering the principles of research and development of clinical laboratory methodology. (Capstone Course)

**4418 Hematology/Coagulation II. (3-3)** In-depth study of theoretical and practical aspects of clinical hematology and hemostasis with emphasis on principles, methodology, problems encountered and clinical applications. Prerequisite: CLS 3412.

**4424 Immunology and Serology. (3-3)** Principles of immune response and underlying immunologic procedures of diagnostic value are discussed. Lectures and laboratory emphasize detection, identification, nature of antigens and antibodies, and the antigen-antibody reactions encountered.

**4440 Clinical Microbiology I (3-6).** Study of pathogenic and non-pathogenic bacteria, fungi, and viruses with special emphasis on methods of isolation from body fluids, cultural and differential biochemical characteristics of body pathogens.

**4460 Immunohematology. (3-4)** Study of theoretical and practical consideration of major blood groups with emphasis on grouping and typing, antibody detection and identification, compatibility testing and component therapy in blood transfusion service.

**4463 CLS Clinical Practice I. (0-16)** Structured clinical experience assigned on an individual basis for observation, study, and practical application of techniques and methodology in the clinical laboratory.

**4464 CLS Clinical Practice II. (0-16)** Continuation of Clinical Laboratory Science Practice I; structured clinical experience assigned on an individual basis for observation, study and practical application of techniques and methodology in the clinical laboratory.

**4470 Clinical Chemistry II. (3-6)** A study of the theoretical and practical aspects of clinical chemistry. Manual and automated laboratory procedures for quantitative analysis of various body fluids.

## **Health Information Management Program**

*Program Chair and Associate Professor-Biedermann. Assistant Professor-Moczygemba, Thomas. Clinical Faculty-Acevedo, Alexander, Anderson, Baca, Beans, Benavidez, Benich, Billalobos, Brown, Cannon, Cantu, Carl, Carson, Chiuminetta, Colovas, Cone, DeLeo, Dunham, Fagin, S. Freeman, V. Freeman, Goerges, Gonzales, Gutierrez, Harmeson, Harold, Harper, Harvey, Heide, Helmke, Janssen, Kowalski, Kravitz, Lawson, Lopez, Lusk, McCauley, McCoy, Moody, Novosad, O'Mealy, Peltier, Pruett, Rains, Robey, M. Sanchez, Y. Sanchez, Schultz, Shults, Spence, Stults, Trlica, Tucker, Vallance, Welch, Willard, Williams, Williamson, Winzeler, Woods, Wright.*

## **Liability Insurance**

1. Students who participate in the internship portions of the Health Information Management program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the program office.

## **Immunization Requirements**

It is a policy of the School of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the program office.

## **Minor in Health Information Management**

A minor in Health Information Management requires 21 hours, HIM 3306, 3363, 3365, 3370, 4355, 4382, and 4385. Appropriate sequencing of courses is necessary for progression to subsequent courses. This minor would enhance and broaden the scope of various other fields of study by providing a well-rounded introduction and an opportunity for practical applications of the administrative functions related to the management of health information. Completing this minor does not meet eligibility requirements for the R.R.A. (Registered Record Administrator) certification examination offered by the American Health Information Management Association.

## **Health Information Management**

The program in health information management prepares students to work in the health information management profession which focuses on health care data and the management of health care information resources. The profession addresses the nature, structure, and translation of data into usable forms of information for the advancement of health and health care of individuals and populations.

Health information management professionals collect, integrate, and analyze primary and secondary health care data, disseminate information and manage information resources, related to the research, planning, provision, and evaluation of health care services.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in cooperation with the American Health Information Management Association Council on Accreditation. Upon completion of the degree, graduates of the program are eligible to sit for the American Health Information Management Association Registry Examination.

The health information management program is a two-year program consisting of the junior and senior years. The following core curriculum (freshman and sophomore years) should be completed prior to admission to the health information management program. Admission to the university does not guarantee admission to the program. Applications for admission to the program must be submitted by March 1 to be considered for the following fall.

## **Admission Process**

1. Second semester sophomore standing.
2. Minimum overall grade point average of 2.25.
3. Personal interview with health information management program Admission Committee. Students will be informed of their status by April 1.
4. Students must make no less than a "C" in each HIM course to meet graduation requirements, and progression in the program may be delayed.

It is strongly recommended that students present themselves for academic advising as soon as health information management has been selected as a major.

Advanced standing in the health information management program will require a review of the student's credentials. Because of course sequencing and the scheduling of clinical assignments, students who drop out of the program for one or more semesters will be required to reapply for admission and be re-interviewed by the admissions committee.

During the second semester of the senior year, students are required to take Internship I, II, and HIM Practicum. These courses require that the students spend a minimum of six weeks in other institutions (hospitals, health agencies, etc.) away from campus. Students must furnish their own transportation and housing. Because of the time and distances involved, no courses other than those listed can be taken in the final semester of the senior year. Upon satisfactory completion of the program the student is eligible to sit for the American Health Information Management Registry Examination.

**Bachelor of Science in Health Information Management**  
**Major in Health Information Management**  
**(Minimum required: 130 semester hours)**

**Freshman Year**

Health Professions 1310 .....	3
Biology 1420 .....	4
Chemistry 1410.....	4
Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics 1315.....	3
Phy. Fitness Perspective (2 courses).....	2
Social Science* .....	3

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**Sophomore Year**

Art, Dance, Music, or Theatre 3313 .....	3
Biology 2430 .....	4
Computer Science 1308.....	3
English Literature* .....	3
International Perspective* .....	3
Health Information Mgt 2360 .....	3
Health Professions 3302 .....	3
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Elective .....	3

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**Junior Year**

HIM 3220, 3306, 3363, 3367 .....	11
HIM 3368, 3464, 4345, 4355, 4382 .....	16
HA 3308 .....	3

## Senior Year

HIM 3365, 3370, 4215, 4225, 4364 .....	13
HIM 4383, 4385, 4388, 4389 .....	12
HA 3327, 4376 .....	6

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\*See General Studies requirements on page 60.

NOTE 1: Biology 2430 is required; HIM 2360, HP 1310 and Computer Science 1308 are preferred before admission to the program can be considered.

NOTE 2: Any student who graduated from high school after January 1988 and did not complete two years of the same foreign language in high school is required to take 6-8 hours of foreign language.

## Courses in Health Information Management (HIM)

**2360 Medical Terminology. (3-0).** Recognizing and understanding the vocabulary of the health care professions. Emphasis on medical prefixes, suffixes, and word roots as used in oral and written communications.

**3220 Professional Practice Aspects of HIM. (2-0)** Introduction to the role of a HIM professional in the dynamic healthcare environment of today. Emphasis will be on professional expectations, career development, continuing education, and practice issues. Critical thinking and oral and written communication skills will be evaluated and reinforced.

**3306 Analysis and Interpretation of Healthcare Data. (3-0)** Collection, analysis, display, interpretation and management of healthcare data. Definitions, sources, computations, reporting systems and methods of quality statistical process control will be explored as they relate to the management of health information.

**3363 Introduction and Technical Aspects of Health Information Management. (2-2).** An introduction into the principles and procedures used in medical record organization, maintenance and retention, numbering and filing systems and procedures, forms control and design, and microfilming. Emphasis will be placed upon the function and duties of the medical record administrator, and relationships of the medical record to the health care delivery system.

**3365 HIM Departmental Management and Relationships. (3-0)** The Medical Record Administrator's relationships to the health care institution, the medical staff, and related committees. Survey and certification procedures for accrediting and licensing agencies.

**3367 Disease and Medical Science I. (3-0)** An introduction to the general disease process. Stress is placed upon the occurrence of disease, the signs and symptoms of disease, the test values and findings of disease, and the therapeutic treatment of disease. Prerequisite: HIM 2360 or consent of the program chair.

**3368 Disease and Medical Science II. (3-0)** A continuation of Disease and Medical Science I. Prerequisite: HIM 3367.

**3370 Comparative Record Systems. (2-2)** Theory and procedures for the maintenance and regulation of patient health information records in non-hospital medical care facilities to include long term care, ambulatory care, psychiatric care, rehabilitation and prison record keeping systems.

**3464 Nosology. (2-2)** Introduction to ICD-CM, CPT and other classifications and nomenclatures. Emphasis will be placed on manual coding of diagnoses and procedures from the acute care facility and the introduction of the use of encoding systems.

**4101 Problems in Health Information Management. (1-0)** Comprehensive study of selected problems related to professional practice issues and changes in the health information management field. Emphasis will be on problem solving and application of management skills. May be repeated with permission of department chair.

**4215 Health Information Management Directed Experience. (1-8)** Supervised experience in health information management technical procedures. Student will develop insight and understanding of the health care delivery system as related to health information management responsibilities and procedures.

**4225 Health Information Management Research and Education. (2-0)** A course of independent reading and research with the student completing a research project and developing an in-service instructional module. Emphasis is on the application of health information management theory and clinical practice.

**4345 Fundamentals of Health Information Systems. (2-2).** Course will provide the student with an exposure to the various computer systems in health care. In addition, the students will study applications available to the health information professional and management of these systems.

**4355 Management of HIM Systems. (3-0)** Introduction to the emerging roles of health information managers in the age of the computer-based patient record. Emphasis on understanding the functions of health information systems and the essential management concepts and practices.

**4364 Classification, Nomenclature and Reimbursement. (2-2)** Continued study of ICD-9-CM, CPT 4 and other classification and nomenclatures. The relationship with inpatient and ambulatory care reimbursement systems is also explored.

**4382 Quality Improvement Regulations & Procedures for HIM. (3-0)** Overview of regulatory agency requirements for utilization review and quality assurance. Methods for integrating quality assurance, risk management and utilization review. Methods and procedures for peer review. Completion of medical care evaluation studies.

**4383 Seminar in Health Information Management. (3-0)** Problem-solving course designed to assimilate actual internship encounters and theory. Emphasis is on integration of knowledge and making transition to the applications required to function as a health information manager.

(WI) **4385 Health Information Management Practicum. (0-8)** Assignments made to promote uniformity and competency levels required of entry-level medical record professionals. The majority of assignments will be completed in the HIM lab utilizing records, the computer capabilities, and other resources available for practical applications of management skills. To be completed during final semester. (Capstone Course)

(WI) **4388 Internship I. (1-40)** Administrative training under the direction of a Registered Record Administrator. Stress on personnel problems, interdepartmental relations, and committee assignments. Full-time participation of the student is required.

(WI) **4389 Internship II. (1-40)** Administrative training under the direction of a Registered Record Administrator in a non-traditional healthcare setting. Affiliation will be in long-term care facilities, home health agencies, State and Federal agencies, clinic and community health agencies. Full-time participation of the student is required.

## **Radiation Therapy Program**

*Program Chair-Lozano.*

### **Liability Insurance**

1. Students who participate in the clinical and internship portions of the Radiation Therapy program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the program office.

### **Immunization Requirements**

It is a policy of the School of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the program office.

### **Radiation Therapy**

The radiation therapist is a key member of the professional team which uses various forms of radiation to treat cancer patients. Radiation therapy may be used alone, or in combination with surgery or chemotherapy, and is the treatment of choice for cure of many cancers. Because of sustained contact with patients, the radiation therapist has considerable responsibility in patient care, dietary counseling and treatment evaluation. The radiation therapist must also appreciate the significant psychological impact that cancer has on patients and their families. The program is in the process of obtaining accreditation by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The program is a two and one-half year program beginning in the junior year, and consisting of a fall, spring, summer, fall and spring semesters. Upon completion of the degree, students are eligible to sit for the national registry examination.

### **Admission Process**

Note: Students who have completed an Associate Degree or Certificate in Radiation Therapy can receive credit toward the Bachelor of Healthcare Administration degree major Healthcare Administration, see page 264 in the catalog.

1. Admission to the university
2. Satisfactory completion of all General Studies requirements and a minimum overall grade point average of 2.50.
3. An application for admission to the radiation therapy program.
4. Three letters of reference and a career goal statement.
5. Interview with admission committee.
6. Deadline for submission of applications is April 1.

**Bachelor of Science in Radiation Therapy**  
**Major in Radiation Therapy**  
**(Minimum required: 136 semester hours)**

**Freshman Year**

<b>Biology 1420</b>	<b>4</b>
Chemistry 1410.....	4
Communications 1310.....	3
English 1310, 1320.....	6
General Studies 1100.....	1
Health Professions 3351 or equiv. ....	3
Health Info Mgt 2360 .....	3
History 1310, 1320 .....	6
Mathematics 1315.....	3
Philosophy 1305 .....	3
Physics 1410.....	4
Psychology 1300 .....	3

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**Sophomore Year**

Art, Dance, Music, or Theatre 3313 .....	3
Biology 2430, 2440 .....	8
English Literature* .....	3
Health Administration 3325, 3327 .....	6
Health Professions 3302 or equiv. ....	3
International Perspective* .....	3
Political Science 2310, 2320 .....	6
Phy. Fitness Perspective (2 courses).....	2
Modern Language.....	6-8

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**Junior Year**

Physical Therapy 3610 .....	6
Radiation Therapy 3210, 3301 .....	5
Radiation Therapy 3310, 3315 .....	6
Radiation Therapy 3320 .....	3
Radiation Therapy 3340, 3350 .....	6

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**Summer between Junior and Senior Years**

Radiation Therapy 3321 .....	3
Radiation Therapy 3330 .....	3

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6

**Senior Year**

Radiation Therapy 4310, 4320 .....	6
Radiation Therapy 4321, 4360 .....	6
Radiation Therapy 4361, 4370 .....	6
Radiation Therapy 4371, 4390 .....	6

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\*See General Studies requirements on page 60.

NOTE: Any student who graduated from high school after January 1988 and did not complete two years of the same foreign language is required to take 6-8 hours of foreign language.

## Courses in Radiation Therapy Technology (RTT)

**3210 Patient Care in Radiation Oncology. (2-1)** This course will focus on basic nursing concepts involved in providing care for the cancer patient. Topics to be included in the class will be cancer as a chronic health problem, social roles and cancer, multidisciplinary approach to patient care, psychosocial dimension of cancer, intreatment examinations, follow-up examinations, emergency management, chemotherapy and nutritional aspects of treating patients with cancer.

**3301 Introduction to Radiation Oncology. (2-2)** An overview of radiation oncology and the role of the radiation therapist. Presentations will orient the student to the physical and biological basis of radiation equipment, procedures, tumor pathology, and patient interaction.

**3310 Physics of Radiation Therapy I. (3-2)** Students will learn the principles of radiation physics as they apply to the treatment and care of the cancer patient. Course will include a thorough review of x-ray production, fundamental principles, concepts and terminology. Topics studied include measurements, general principles, structure of the atom, structure of the matter, electrostatics, magnetism, electrodynamics, electromagnetism, rectification and production and properties of radiation and radiographic techniques.

**3315 Radiation Protection. (3-0)** This course trains the student in maintaining the lowest radiation dose in all personnel and patients. Students will learn dose limits, regulations, safety procedures, shielding, and testing. They will also learn the protection roles of the radiation oncologist, radiation therapist, radiation safety officer and clinical physicist as they pertain to patients, personnel and the public. Purpose and methods of personnel monitoring and patient monitoring will be reviewed to include types of emergencies that can occur and procedures to be followed.

**3320 Directed Clinical Learning I. (0-16)** Students will begin to gain skill in clinical procedures, interaction with patients and professional personnel as they apply didactic knowledge to the clinical aspects of radiation therapy and become familiar with various radiation therapy aspects of patient care. All student activity in this activity will be supervised by a registered radiation therapist. Student begins to be tested on basic radiation therapy skills.

**3321 Directed Clinical Learning II. (0-16)** Students will gain additional skills in clinical procedures, interaction with patients and professional personnel. Applies knowledge from previous clinical learning experience under the supervision of a registered radiation therapist. Students are tested on intermediate clinical radiation therapy skills. Prerequisite: RTT 3320

**3330 Quality Assurance. (2-1)** Students will study quality assurance tests related to patient charts, treatment accessories, patient communication devices, machine readings and safety devices. Emphasis on quality control procedures to include Continuous Quality Improvement (CQI), Joint Commission on Accreditation of Healthcare Organizations (JCAHO) and responsibilities of each team member in relation to quality assurance duties.

**3340 Oncologic Pathology. (3-0)** This course introduces the concept of disease, histology, types of growth, etiology and biological behavior of neoplastic diseases. Topics: the inflammatory process and clinical patterns, types of edema and etiology hormones related to growth; characteristics of benign and malignant tumors; histological grading; and pathophysiology across the lifespan and associated diseases.

**3350 Radiobiology. (3-0)** This course will cover the principles of cell response to radiation, including tissue sensitivity, survival, repair and the latent effects of irradiated tissue. Topics to be covered include the development of radiation science, cellular targets for radiation action, target theory, physical/chemical factors affecting radiation response, biological factors, repair and recovery, fractionated doses and dose rate, early/acute effects of whole body exposure, late/chronic effects of whole body exposure, and radiation protection dose guidelines.

**4310 Physics of Radiation Therapy II. (3-1)** Students will continue to learn the principles of cell response to radiation. Topics covered will include properties of x-ray and gamma radiation, radiation units, x-ray production, photon interactions, beam characteristics, radioactivity, treatment units, and particle irradiation. Prerequisite: RTT 3310

**4320 Directed Clinical Learning III. (0-16)** Students will improve their skills in clinical procedures, interaction with patients and professional personnel and level of clinical skills assessment testing, as they practice radiation therapy in a supervised setting.

**4321 Directed Clinical Learning IV. (0-16)** Students will complete their clinical training by practicing all the skills they have learned in the classroom and lab. All patient treatment done in directed clinical learning will be under the supervision of a registered radiation therapist.

**4360 Dosimetry I. (3-0)** This course will cover the basic concepts in treatment planning and clinical dosimetry. Students will learn to describe isodose curves and their influencing factors, treatment planning using various localization techniques, organs at risk and tolerance doses, arrangements for various multiple beam techniques and single beam therapy including correction techniques. Students will also learn fundamental procedures in dose measurement, verification, and machine calibration.

**4361 Dosimetry II. (2-3)** Students will learn additional concepts in treatment planning and clinical dosimetry addressed in Dosimetry I. Additional topics presented to the students include purpose, application and dose calculations of wedges, application and isodose distribution of moving beam therapy, irregular field techniques, systems of dose distribution and how to calculate prescribed dose. Prerequisite: RTT 4360.

**4370 Clinical Radiation Oncology I. (3-1)** Students will receive disease specific instruction which includes regional anatomy and physiology, epidemiologist, etiologies, diagnostic procedures, pathology, staging and methods of radiation therapy as well as other cancer therapy. Disease specific treatment techniques, localization, energy selection, field arrangements, beam accessories and immobilization devices are presented. Students will understand the disease, side effects, and prognosis. Course will include case studies and a research paper.

**4371 Clinical Radiation Oncology II. (3-1)** Continuation of disease specific instruction addressed in RTT 4370. Students will learn sites where tumors arise, epidemiologies, etiologies, diagnostic procedures, pathology, staging and methods of radiation therapy as well as other cancer therapy. Disease specific treatment techniques, localization, energy selection, field arrangements, beam accessories and immobilization devices are presented. Students will understand the disease side effects, and prognosis. Course will include case studies and a research paper. Prerequisite: RTT 4370.

**4390 Analysis of Radiation Oncology. (3-0)** Senior Project in radiation oncology. Individual research in radiation oncology. Explore methods of professional development in the field of radiation therapy. Emphasis is placed on emerging trends in the field, including technologic advances, changes in legislation, licensing requirements, and employment options.



SCHOOL OF  
LIBERAL ARTS

**G. Jack Gravitt, Ph.D., Dean**  
**Ann Marie Ellis, Ph.D., Associate Dean**  
**Dennis J. Dunn, Ph.D., Director,**  
**Center for International Education**  
**Leticia M. Garza-Falcón, Ph.D., Director,**  
**Center for Multicultural and Gender Studies**  
**Mark B. Busby, Ph.D., Director,**  
**Center for the Study of the Southwest**

**Department Chairs**

Anthropology ..... David M. Glassman, Ph.D., Acting  
English ..... Lydia A. Blanchard, Ph.D.  
Geography and Planning ..... Lawrence E. Estaville, Ph.D.  
History ..... Kenneth H. Margerison, Ph.D.  
Modern Languages ..... Robert A. Fischer, Ph.D.  
Philosophy ..... Vincent L. Luizzi, Ph.D.  
Political Science ..... Cynthia Opheim, Ph.D.  
Psychology ..... Shirley M. Ogletree, Ph.D.  
Sociology ..... Donald T. Matlock, Ph.D.

## **SCHOOL OF LIBERAL ARTS**

The School of Liberal Arts provides students with the foundation for a liberal education, preparing graduates to think independently, to choose freely, to base personal and professional decisions on a broad understanding of history and culture, and to live full, rewarding lives. Recognizing the central importance of liberal education, the university requires that more than fifty percent of the general studies curriculum be taken in the School of Liberal Arts, and students increasingly declare majors or minors in one of the school's nine departments or special programs.

The School of Liberal Arts offers the BA in each of its nine departments—

Anthropology, English, Geography and Planning, History, Modern Languages, Philosophy, Political Science, Psychology, and Sociology. The BS is awarded in Psychology and in Geography and Planning. The school also offers two special degrees: the BS in Applied Sociology and the BA in International Studies. The school houses eight interdisciplinary minors: Media Studies, Medieval and Renaissance Studies, Nature and Heritage Tourism, Religious Studies, Southwestern Studies, U. S. Ethnic Studies, Value Studies, and the Women's Studies minor. The school provides education not only in the traditional humanities but also in the practical application of the humanities to professional careers.

For further information, call (512) 245-1852, fax (512) 245-8291 or visit the School of Liberal Arts Advising Center, FH 311.

### **Center for the Study of the Southwest**

The Center for the Study of the Southwest, established in February 1990, has a threefold mission: curriculum development, public outreach, and research. Its 18-hour interdisciplinary minor was approved in 1992. The Center draws faculty from varied disciplines (Art, Biology, English, Geography, History, and others); it disseminates information about its programs and research through *Southwestern American Literature*, a biannual journal devoted to the literature and culture of the Greater Southwest, and *Texas Books in Review*, a quarterly that monitors publications from or about Texas. For more information on the Center, see Dr. Mark Busby, Director in FH 327.

## Center for Multicultural and Gender Studies

### Minor in U.S. Ethnic Studies

This minor (18 semester hours) provides an interdisciplinary approach to U.S. Ethnic Studies. It also provides conceptual frameworks for exploring new perspectives which recover the history, creative expression, and voices previously excluded by the traditional approaches to higher education. The minor fosters students' development of self, voice, and moral vision to prepare them to live and work effectively in a pluralistic society. Although not required, the minor currently offers students the option of a concentration in African American, American Indian or Mexican American Studies.

The required **Core Course**, 3301: Introduction to US Ethnic Studies, (3 hours) offers a general, multi-disciplinary and comparative survey. The **General Requirement Block** (9 hours) focuses on African American, Mexican American, and American Indian groups and/or link the studies of their country of origin with current and historical research on race and ethnic relations in the US. Anthropology 3314, 3315, 3331A, 3331C, 3345, 3332, 3324, English, 3331, 3344, History 3359, 3320, 3325E, 4372, 3329, 3369W, 3369Y, 3369Z, Honors 3391Q, 3391V, Modern Languages 3305, 3306, 3371, 4370, Music 3375, Political Science 4331B, 4331C.

The General Concepts Electives Block (6 hours) deals more broadly with concepts of ethnicity and need not be limited to the specific groups listed above. These courses provide a theoretical framework for understanding comparative, interdisciplinary approaches to the study of ethnicity. Anthropology 1312, 3370, ArtH 4301, English 3345, 3346, 2340, Family Consumer Sciences 4351, Geography 3306, 3308, 3329, 3353, History 3353, 3372, Honors 3392E, Political Science 3319, 3395, Spanish 4330, Social Work 4310, Sociology 3327, 3366, 3375, Speech Communication 3318F, 4322, Mass Communication 4382C.

\*Special topic courses (those offered on a selective basis) may count toward the minor with the permission from the US Ethnic Studies Program Director and the Dean of Liberal Arts.

For information, call 245-2361 or contact Dr. Leticia M. Garza-Falcón, Director, Center for Multicultural and Gender Studies, FH 322.

### Minor in Women's Studies

The Women Studies minor offers an interdisciplinary, 18 hour program which concentrates on the images and realities of women. Drawing on recent scholarship on women and gender, the Women Studies minor provides a flexible, coherent program that enables students to consider the significance of gender.

On a personal level, courses in this program enhance the human potential of both men and women, because knowledge about how societies construct gender relations can encourage students to examine their own attitudes and behavior. On the academic level, a minor in Women's Studies provides study of the ongoing scholarship about women and gender and offers students the opportunity for exciting intellectual growth. On a professional level, the minor provides a valuable specialty to prepare students for opportunities in a variety of fields, including business, counseling, education, government, health and medicine, human resources, law, politics, psychology, social work, and graduate studies. The Women's Studies minor helps students recognize their opportunities in a rapidly changing society and flexibly complements any major.

Students in the minor take two interdisciplinary core courses, WS 3376: "Images of Women" (taught and coordinated by Professor Audrey McKinney, Department of Philosophy) and WS 3377: "Realities of Women" (taught and coordinated by Professor Ramona Ford, Department of Sociology) which include lectures by faculty from the university's seven schools. In addition, students choose twelve upper division elective hours from a variety of disciplines: Anthropology 3324, 3350; Criminal Justice 4326; Mass Communication 3318C, Speech Communication 3334, 4382C; English 3388, 3392; History 3369Y, 3373; Honors 3392A, 3392G; Philosophy 3333; Political Science 4330; Psychology 3332; Sociology 3350, 3370. Topic courses, offered on a selective basis, may count toward the minor with permission from the Women's Studies Program Director and the Dean of Liberal Arts.

For more information, call 245-2361 or contact Dr. Leticia M. Garza-Falcón in the Center for Multicultural and Gender Studies in FH 325.

## Center for International Education

### General Requirements for the Bachelor of Arts and Bachelor of Arts in International Studies

Most students majoring in one of the liberal arts are awarded the BA. Students who earn the BA complete the general studies courses specified by the university and the requirements of their major department. In addition, all students earning the BA must complete a minor and special requirements in English, modern languages, and science.

**English:** Two semesters of literature chosen from 2310, 2320, 2330, 2340, 2359, and 2360. (Students who earn a grade of B or above in the first sophomore course may, with permission from the chair of their major department and school dean, elect to take an advanced literature course in lieu of the second sophomore course.)

**Modern Languages:** A proficiency level of successful completion of French, German, Japanese, Russian, or Spanish 2310 and 2320. Students with substantial previous language experience may meet their language requirement by completing as few as 6 hours at the sophomore level. Most students will need to complete the first year of the language (1410 and 1420) before beginning 2310.

**Science:** Four semesters of work in at least two of the departments of biology, chemistry, computer science, mathematics, philosophy (logic only), and physics (including geology), provided two of the semesters are in the same laboratory science.

All majors in international studies are required to have sophomore standing and a 3.0 SWT grade point average. In addition, all majors are required to take the core, which consists of 9 courses (27 semester credit hours), the International Studies Seminar (3 semester credit hours), and 17 hours in one foreign language (one course must be advanced), for a total of 47 credit hours. Required courses beyond the core vary with the student's concentration (see below). Students must meet all course prerequisites. The program also requires a minor, the number of hours of which will vary with the minor selected. (See requirements for minors, page 71.)

### Common Core for All International Studies Majors: 47 semester credit hours

	Hours
Anthropology 1312 Cultural Anthropology or Anthropology 3301 Principles of Cultural Anthropology	3
Geography 1310 World Geography	3
History 2310 Western Civilization to 1715, or 2311 History of World Civilization to the 17th Century	3
History 2320 Western Civilization, 1715 to Date, or 2312 History of World Civilization to the 17th Century	3
Political Science 2323 Introduction to International Studies	3
Economics 2310 Principles of Macroeconomics	3
Economics 2320 Principles of Microeconomics	3
Computer Information Systems 1323 Small Business Computer Systems or History 3370 Tools and Techniques of Historical Research and Writing	3
Any one of the following:	3
Economics 3317 International Economics	
Political Science 4326 Issues in World Politics	
Political Science 4327 Theories of International Politics	
Political Science 4356 International Law	
Political Science 4357 International Organization	
Political Science 4359 Politics of International Economic Relations	
Capstone*	3
Foreign Language: 17 semester credit hours in one language (one course must be advanced)	17
<b>Total</b>	<b>47</b>

\*Consult Program Director for capstone course options.

The major and minor in international studies are offered by the School of Liberal Arts to prepare students for leadership in an increasingly interdependent world. The majors include:

- International Relations (308.10)
- International Studies: International Business (330.10)
- International Studies: Travel and Tourism (330.20)
- Asian Studies (370)
- European Studies (371)
- Interamerican Studies (372)
- Middle East/African Studies (373)
- Russian/East European Studies (374)



**Bachelor of Arts in International Studies**  
**Major in International Relations**  
**(Minimum required: 128-136 semester hours**  
**with Foreign Service Focus)**

**Hours**

Economics 3317 International Economics	3
Geography 3340 Political Geography	3
History 3357 American Diplomatic History	3
History 4307 Medieval European History, 300-1400	3
History 4309 Europe from 1815 to 1870	3
Political Science 4356 International Law	3
Political Science 4359 Politics of International Economic Relations	3
Two additional courses from the following:	6
Economics 3353 Comparative Economic Systems	
Geography 3303 Economic Geography	
Geography 3349 Population Geography or Sociology 4330 Population	
Health Administration 4303 International Health	
Mass Communication 4316A International Advertising	
Political Science 4326 Issues in World Politics	
Political Science 4327 Theories of International Politics	
Political Science 4357 International Organization	
Political Science 4345 American Foreign Policy	
Speech Communication 3318F Intercultural Communication	
<b>Total</b>	<b>27 hours</b>

**Bachelor of Arts in International Studies**  
**Major in International Studies**  
**(Minimum required: 128-136 semester hours**  
**with International Business Focus)**

Choose 18 semester hours (6 courses) from the following:

Accounting 2361 Introduction to Financial Accounting  
Accounting 2362 Principles of Managerial Accounting  
BLAW 3363 International Business Law  
Computer Information Systems 3370 Management Information Systems  
Economics 3311 Money and Banking  
Economics 3344 Economic History of the United States  
(credit will not also be given for History 3344)  
Economics 3353 Comparative Economic Systems  
Finance 3312 Business Finance  
Finance 4312 Financial Management  
Finance 4331 International Finance  
Management 3303 Principles of Management  
Management 4375 Organizational Behavior and Human Relations  
Marketing 3343 Principles of Marketing  
Marketing 3377 International Marketing

Choose 15 semester hours (5 courses) from the following; no more than 9 hours (3 courses) from one discipline.

Agricultural Economics 3319 International Food and Fiber Systems  
French 3381 French for Business  
Geography 3303 Economic Geography  
Geography 3340 Political Geography  
Geography 3349 Population Geography

History 3344 Economic History of the United States  
 (credit will not be given for Economics 3344 and History 3344)  
 History 4361 History of the United States, 1968 to the Present  
 Mass Communication 3343 Introduction to Public Relations  
 Mass Communication 3367 Advertising  
 Mass Communication 4316A International Advertising  
 Mass Communication 4382B Special Topics: International Communication  
 Philosophy 3322 Business and Professional Ethics  
 Political Science 3328 Public Finance Administration  
 Political Science 4326 Issues in World Politics  
 Political Science 4327 Theories of International Politics  
 Political Science 4356 International Law  
 Political Science 4357 International Organization  
 Political Science 4359 Politics of International Economic Relations  
 Psychology 3333 Industrial Psychology  
 Spanish 3311 Business Spanish I  
 Spanish 3312 Business Spanish II

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\*Note: No more than 30 semester hours of course work offered by the School of Business may be applied to this degree.

**Bachelor of Arts in International Studies**  
**Major in International Studies**  
**(Minimum required: 128-136 semester hours**  
**with Travel and Tourism Focus)**

	<b>Hours</b>
Accounting 2361 Introduction to Financial Accounting	3
Accounting 2362 Principles of Managerial Accounting	3
Geography 3340 Political Geography	3
History 3311 History of Europe Since 1919	3
History 4307 Medieval European History, 300-1400	3
Management 3303 Principles of Management	3
Marketing 3343 Principles of Marketing	3
International Studies 4687 Internship	6
Two additional courses from the following:	
History 3322 Colonial History of Latin America to 1828	
History 4303 Ancient Greece and the Mediterranean World, 1600 B.C.-30 B.C. or History 4304 Ancient Rome and the Mediterranean, 500 B.C.-500 A.D.	
Mass Communication 3343 Introduction to Public Relations	
Mass Communication 3367 Advertising	
Mass Communication 4316A International Advertising	
Mass Communication 4382B Special Topics: International Communication	
<b>Total</b>	<b>33 hours</b>

Note: It is strongly recommended that students also take English 2330 and 2340.

**Bachelor of Arts in International Studies**  
**Major in Asian Studies**  
**(Minimum required: 128-136 semester hours)**

Choose 27 semester hours; no more than 9 hours from one discipline

Anthropology 3316 Archaeology of Europe, Asia, and Africa  
 Geography 3332 Geography of South and Southeast Asia  
 Geography 3333 Geography of China and Japan  
 Geography 3349 Population Geography or Sociology 4330 Population

Geography 4328 Geography of the Russian Realm  
Health Administration 4303 International Health  
History 4333 History of Russia and Eurasia to 1917  
History 4334 History of Russia and Eurasia from 1917 to Present  
History 4343 Modern China, 1600-Present  
History 4344 Modern Japan, 1600-Present  
Marketing 3377 International Marketing  
Political Science 4313 Islamic Law and Politics  
Political Science 4341 Government and Politics of Russia  
Political Science 4350 Government and Politics of Asia  
Speech Communication 3318F Intercultural Communication

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Note: The 17-hour language requirement described in the core must be completed in one of the main Asian languages.

### **Bachelor of Arts in International Studies Major in European Studies (Minimum required: 128-136 semester hours)**

Choose 27 semester hours; no more than 9 hours from one discipline

Anthropology 3316 Archaeology of Europe, Asia, and Africa  
ArtH 2301 Ancient to Medieval Art  
Economics 3317 International Economics  
Economics 3353 Comparative Economic Systems  
English 3316 Film and Prose Fiction  
English 3341 Studies in World Literature  
Geography 3307 Geography of Europe  
Geography 4328 Geography of the Russian Realm  
History 3310 History of Europe, 1871-1919  
History 3311 History of Europe Since 1919  
History 3312 Renaissance and Reformation  
History 3314 Revolutionary Europe, 1760-1815  
History 3315 History of England  
History 3316 History of England  
History 3358 The Military History of the Western World  
History 4303 Ancient Greece and the Mediterranean World, 1600 B.C.-30 B.C.  
History 4304 Ancient Rome and the Mediterranean, 500 B.C.-500 A.D.  
History 4307 Medieval European History, 300-1400  
History 4309 Europe from 1815 to 1870  
History 4317 Tudor-Stuart England, 1485-1689  
History 4318 Interpretations of Modern European History  
History 4320 Origins of Christianity  
History 4333 History of Russia and Eurasia to 1917  
History 4334 History of Russia and Eurasia from 1917 to Present  
History 4336 Germany from 1815 to Present  
History 4368 War and Society  
Political Science 3330 Modern Political Theory  
Political Science 3332 Ancient and Medieval Political Thought (Greeks to 1600)  
Political Science 4326 Issues in World Politics\*  
Political Science 4340 Government and Politics of Western Europe  
Political Science 4341 Government and Politics of Russia

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\*When subject focus is Europe.

### **Bachelor of Arts in International Studies Major in Interamerican Studies (Minimum required: 128-136 semester hours)**

Choose 27 semester hours; no more than 9 hours from one discipline

Anthropology 3314 Latin American Cultures  
 Anthropology 3345 Archaeology of Mexico  
 Anthropology 3360 Economic Anthropology  
 ArtH 4303 Pre-Columbian Art  
 English 3323 British and American Poetry Since 1900  
 English 3333 Early American Literature  
 English 3335 American Literature 1865-1930: The Rise of Realism, Naturalism,  
 and Modernism  
 Geography 3308 Latin America  
 Geography 3309 United States and Canada  
 History 3319 Colonial History of Brazil  
 History 3320 History of Mexico  
 History 3322 Colonial History of Latin America to 1828  
 History 3324 Latin America from Independence to the Present  
 History 3325 Selected Topics in Latin American History  
 History 3326 The Southern Cone of Latin America  
 History 3327 History of Mexico  
 History 3329 Spanish Borderlands  
 History 3342 Social and Intellectual History of the United States, 1607-1865  
 History 3343 Social and Intellectual History of the United States since 1865  
 History 3344 Economic History of the United States  
 History 3357 American Diplomatic History  
 History 4360 History of the United States, 1945 to 1968  
 History 4361 History of the United States, 1968 to the Present  
 History 4364 Military History of the United States  
 Political Science 3331 American Political Theory  
 Political Science 4326 Issues in World Politics\*  
 Political Science 4334 Selected Topics in American Government  
 Political Science 4338 Government and Politics of Latin America  
 Political Science 4345 American Foreign Policy  
 Political Science 4358 United States-Latin American Relations

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\*When subject focus is Western Hemisphere.

## **Bachelor of Arts in International Studies** **Major in Middle East/African Studies** **(Minimum required: 128-136 semester hours)**

Choose 27 semester hours; no more than 9 hours from one discipline

Anthropology 3316 Archaeology of Europe, Asia, and Africa  
 Anthropology 3323 Cultures of the Middle East  
 Geography 3328 Geography of North Africa and Middle East  
 Geography 3340 Political Geography  
 Geography 3349 Population Geography or Sociology 4330 Population  
 Health Administration 4303 International Health  
 History 4318 Interpretations of Modern European History\*  
 History 4340 History of the Middle East Since 1914  
 Political Science 4313 Islamic Law and Politics  
 Political Science 4314 Middle East Revolution and Nationalism  
 Political Science 4315 Arab-Israeli Conflict  
 Political Science 4351 African Politics  
 Speech Communication 3318F Intercultural Communication

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Note: The 17-hour language requirement described in the core must be completed in either French or Spanish

**Bachelor of Arts in International Studies**  
**Major in Russian/East European Studies**  
**(Minimum required: 128-136 semester hours)**

Choose 27 semester hours; no more than 9 hours from one discipline

Economics 3317 International Economics  
Economics 3353 Comparative Economic Systems  
Economics 4353 East European and Russian Economics  
English 3325 Russian Literature in Translation  
Geography 4328 Geography of the Russian Realm  
History 4333 History of Russia and Eurasia to 1917  
History 4334 History of Russia and Eurasia from 1917 to the Present  
History 4335 Selected Topics in 20th Century East European History  
Music 3325 Music of Russia and East Europe  
Political Science 4341 Government and Politics of Russia  
Political Science 4372 Government and Politics of Eastern Europe

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\*When subject focus is Western Hemisphere

\*\*When subject focus is Middle East/African studies.

**Bachelor of Arts in International Studies**  
**Major in International Studies**  
**(Minimum required: 128-136 semester hours)**

<b>Freshman Year</b>	<b>Hours</b>
English 1310, 1320.....	6
History 1310, 1320 .....	6
Modern Language.....	8
Natural Science Perspective.....	7-8
Phy. Fitness Perspective (2 courses).....	2
Communication 1310 .....	3
General Studies 1100.....	1

<b>Sophomore Year</b>	<b>Hours</b>
English (Literature).....	6
International Studies Core .....	9
Mathematics 1315.....	3
Modern Language.....	6
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Math, Science, Logic* .....	3

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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
International Studies Core .....	18
International Studies Focus .....	12
Modern Language (advanced) .....	3

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36

Senior Year	Hours
Capstone Course** .....	3
International Studies Focus .....	15-21
Minor .....	18-30

36-54

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Students must complete 18 hours of courses which are designated as writing intensive.

## Minor in International Studies

The minor (33 semester hours) see pp. 73 for course requirements.

## Courses in International Studies (IS)

(WI) **4380 International Studies Seminar. (3-0)** This seminar will be offered by different faculty in different departments on a rotating basis. Students will be expected to produce a significant research paper using foreign language materials.

**4687 International Studies Internship. (1-5)** An optional offering through international studies for a semester-long work and study experience in a foreign setting. Can be offered by any interested department.

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\*Liberal Arts requires the completion of an additional course in math (1315 or above), science, or logic (Philosophy 2330 Elementary Logic).

\*\*Consult Program Director for capstone course options.

## Department of Anthropology

*Acting Chair and Professor-Glassman. Professors-Garber, McGee, Whalen. Associate Professor Warms. Assistant Professors-Juarez, Reilly.*

Anthropology is the study of human beings and the way they live, both in the present and in the past. It includes cultural anthropology, which is concerned with contemporary societies; physical anthropology, which deals with primate and human evolutionary development; and archaeology, which studies the cultural and material manifestations of human society during the past two million years. Students who earn a degree in anthropology are exposed to both cultural and biological aspects of humanity. Anthropology majors earn a BA degree and are prepared both for graduate work in anthropology and for careers requiring familiarity with foreign cultures.

For more information about anthropology, call 245-8272 or visit the department in Liberal Arts 273.

### **Bachelor of Arts Major in Anthropology (Minimum required: 128 semester hours)**

The BA in Anthropology exposes students to both social and biological aspects of humanity. It involves the scientific examination of cultural and biological variability. It prepares students for graduate work in anthropology and for careers in which the knowledge of other cultures is essential.

#### **Notes:**

1. A major in anthropology requires 32 semester hours, including a minimum of 18 semester hours of advanced courses.
2. All majors are required to take Anthropology 1312, 2414, 2415, and 4310.
3. Eighteen hours of writing intensive (WI) courses (not including English 1310, 1320) are required for graduation.
4. Students may not receive more than six hours credit in Anthropology 4630 to satisfy Anthropology major or minor requirements.

#### **Freshman Year                      Hours**

Anthropology 1312.....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320.....	6
Modern Language.....	8
Natural Science Perspective**.....	7-8
Phy. Fitness Perspective (2 courses).....	2



<b>Sophomore Year</b>	<b>Hours</b>
Anthropology 2414, 2415.....	8
English (Literature).....	6
<b>Mathematics 1315, 1316 or 1319</b>	<b>3</b>
Modern Languages***.....	6
Philosophy 1305 or 3301.....	3
Political Science 2310, 2320.....	6
Social Science Perspective****.....	3
	<hr/> 35

<b>Junior Year</b>	<b>Hours</b>
Anthropology, advanced.....	9
Art, Dance, Music, or Theatre 3313.....	3
Communication 1310.....	3
Electives.....	3
BA Science Requirement.....	3
Minor.....	9
	<hr/> 30

<b>Senior Year</b>	<b>Hours</b>
Anthropology, nine hours advanced.....	9
Capstone Course (Anthropology 4310).....	3
Electives.....	9
Minor.....	6-9
	<hr/> 30

\*May be repeated with different emphasis for additional credit.

\*\*At least one semester of laboratory science.

\*\*\*Satisfies the international perspective in a spoken foreign language.

\*\*\*\*Not Anthropology 1312 or 3301.

## Minor in Anthropology

A minor in anthropology requires 20 semester hours including Anthropology 1312, 2414, 2415, and at least nine advanced semester hours.

## Courses In Anthropology (ANTH)

**1312 (ANTH 2351) Cultural Anthropology. (3-0)** Examines the nature of culture and its various aspects as these are manifest in contemporary and traditional societies. Provides for increased flexibility of human culture. Anthropology 1312 and 3301 may not both be counted for credit.

**2414 Physical Anthropology. (3-1)** This lecture and accompanying laboratory course examines fundamental aspects of the physical nature of humans and human variability. Course content is divided into sections devoted to the process of evolution and the inheritance of physical characteristics, primate behavior, osteology (study of the skeleton), and the human fossil record.

**2415 General Archaeology. (3-1)** This course covers the basic principles of archaeology. It includes a study of the kinds of sites; classification of stone artifacts; methods of archaeological survey and excavation; methods of dating by geological, faunal, and radiometric means; and the theoretical approach to archaeology. This course includes a two-hour weekly laboratory.

**3301 Principles of Cultural Anthropology. (3-0)** A cross-cultural survey of the interrelated systems of culture including subsistence, economic, religious, social, and political patterns. Case studies come from societies of varying cultural complexity ranging from small hunting and gathering bands to large industrialized states. Anthropology 1312 and 3301 may not both be counted for credit.

**3305 Magic, Ritual and Religion. (3-0)** An examination of magic and religion in cultures of the world with an emphasis on recent works dealing with mysticism and the occult.

**3309 Cultures Through Film. (3-0)** Through films, lectures, and discussions, students explore the various ways that ethnographic film interprets the cultural environment and social interactions of small-scale cultures around the world. We will also discuss anthropological interpretations of how historically U.S. (American) culture has dealt with concepts of the “other” and supernatural phenomena through Film.

**3314 Latin American Cultures. (3-0)** An examination of Latin American cultures with an emphasis on pre-Columbian and contemporary indigenous peoples of Mexico.

**3315 Archaeology of the Southwest. (3-0)** An examination of the prehistory and early cultures of the Greater Southwest from the first arrival of humans as early as 20,000 years ago to the coming of the Spaniards in the 16th century. The course covers several mammoth kill sites at the end of the Pleistocene; the emergence of Archaic hunters and gatherers and the appearance of agriculture about two thousand years ago, leading to the three major cultures in the southwest—the Mogollon, the Hohokam and the Anasazi, the last in multistoried pueblos and cliff dwellings.

(WI) **3316 Archaeology of Europe, Asia and Africa. (3-0)** A survey course describing the first appearance of humans about 2.5 million years ago in Africa, their way of life, early migration into Asia, and eventual expansion into Europe. The course covers the development of human society, with special attention to recent discoveries and dates, and their impact on the interpretation of early human societies.

**3322 Peoples and Cultures of Africa. (3-0)** A general introduction to the contemporary peoples and cultures of sub-Saharan Africa. Examines the social structure, economy, political systems, religions of African cultures in the context of the radical economic and social transformations affecting the area.

(WI) **3323 Cultures of the Middle East. (3-0)** This course deals with contemporary societies from Morocco to Iran. It reviews geography and history of the Middle East and the various religions found there with an emphasis on Islam. The course describes various ethnic groups and their organization as nomad, village, or urban dwellers. The role of women in Middle East society is discussed.

**3324 Mexican American Culture. (3-0)** An examination of the history and culture of Mexican Americans with an emphasis on the analytical concepts of culture, race, class, and gender. Lectures, films, and selected readings (including chapters from anthropological and literary books and journals) will be used to portray the diversity of Mexican American experiences in this country. Topics include religion, politics, economy, identity politics, popular culture, sexuality, marriage and the family.

**3331A North American Indians. (3-0)** A study of several of the many societies of North American Indians. This course will examine the prehistoric development of Native American culture with special emphasis on art and religion as well as the cultural mechanisms through which Native Americans deal with non-Native American contemporary social and political developments.

**3331C Indians of the Southwest. (3-0)** A survey of the life and cultural patterns of Indian groups in the greater Southwest before and after Spanish and American contact.

**3332 Myths and Moundbuilders. (3-0)** This course presents an anthropological approach to Native Americans of the Southeastern United States, their culture and beliefs.

(WI) **3340 Human and Primate Origins. (3-0)** An examination of the long and diverse record of human and nonhuman biological adaptations as viewed from the fossil record. It examines the functional and ecological challenges which may have been responsible for the path of human development.

**3342 Primate Behavior. (3-0)** This course examines a wide variety of aspects of ecology, identification, and behavior among the living primates (prosimians, monkeys, apes, and humans). Topics which are emphasized include general primate trends, social structure and composition, communication, aggression and dominance, socialization, and primate psychology.

**3343 Human Variation and Adaptation. (3-0)** This course examines the physical variation observable within and between human populations. It emphasizes a functional approach whereby variation is examined in relation to biological adaptation. It explores the biological mechanisms responsible for change and evaluates the potential of biological components in human behavior. Prerequisite: One year of biology (either 1310, 1410, or 1420 are recommended) or Anthropology 2414.

**3344 Forensic Anthropology and Osteology. (3-0)** This course examines the interrelated fields of human osteology (the study of the human skeleton) and forensic anthropology (the field of human identification from skeletal material in medico-legal contexts). It emphasizes skeletal identification, management and recovery of the death scene, and skeletal reconstructions.

**3345 Archaeology of Mexico. (3-0)** This course examines the development of culture from early hunters and gatherers through the appearance of agriculture to the rise of civilization. The focus on the course is on the emergence of complex society among groups such as the Olmec, Aztec, and Maya.

**3347 Archaeology of North America. (3-0)** This course describes human settlement of North America from the end of the Pleistocene to European discovery. It considers early occupation of arctic, plains, and forested regions and development during archaic times of Adena, Hopewell, and Mississippian societies in the Southeast and Mogollon, Hohokam, and Anasazi in the Southwest.

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\*May be repeated with different emphasis for additional credit.

**3350 Sex Roles. (3-0)** This course examines the relationships between women and men in societies around the world. Course topics include the socialization of gender roles, the ritual creation of gender, beliefs about sexuality, and sexual violence with an emphasis on cross-cultural examples.

**3360 Economic Anthropology. (3-0)** Reviews central issues in economic anthropology, using both case studies and theoretical writings. Analyzes production, exchange, distribution, consumption, property, economic surplus, inheritance, and types of economic structure. Materials will cover hunter-gatherer societies, simple agricultural societies, pre-capitalist complex state societies, and issues of development in non-industrialized countries.

(WI) **3365 Ecological Anthropology. (3-0)** This course presents an anthropological approach to humans and their environment. It focuses on the ways in which human societies both adapt to the environment and adapt the environment to their needs. It surveys environmentally based studies in anthropology and the basic principles of ecology.

**3370 Culture and Personality. (3-0)** An examination of the ties between psychology and anthropology in the cross-cultural study of human beings. Course topics include psychoanalytic studies of non-western societies, the development of I.Q. testing, dream analysis, and the use of projective tests in non-western society.

**\*3375 Selected Topics in Anthropology. (3-0)** Analysis and interpretations of selected topics of special interest in the area of social, physical, and/or archaeological anthropology. Topics discussed and instructors will vary from semester to semester.

(WI) **4310 History of Anthropological Thought. (3-0)** A historical survey of the major theoretical positions in 19th and 20th century anthropology, this course emphasizes the central position of theory within anthropology. It focuses the relationships among theoretical positions and explores the conflicts which these generate.

(WI) **4320 Rise of Civilization. (3-0)** This course consists of a definition of civilization and its components, its geographic setting, and the roles of religion, art, and the institution of the "Divine King" in the development of dynamic state societies in Egypt, Sumeria, the Indus Valley, and China in the Old World and that of the Olmec in Mexico and Chavin in Peru.

**\*\*4360 Directed Study. (3-0)** A one-semester course of independent reading, tutorial sessions, and individual research projects. Open to superior students by invitation of the professor and with the consent of the chair of the department

(WI) **4361 Field Methods in Cultural Anthropology. (3-0)** This course teaches students how to conduct field research in cultural anthropology. Topics include research ethics, problem formulation, participant observation, interviewing, and other techniques for data collection and analysis. Students will conduct their own field research project under the instructor's supervision.

**\*\*\*4630 Archaeological Field School. (1-5)** This course is designed to train students in the skills and techniques of modern archaeological survey and excavation of prehistoric sites.

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\*May be repeated with different emphasis for additional credit.

\*\*May be repeated for credit with permission of instructor.

\*\*\*May be repeated for credit.

## Department of English

*Chair and Professor-Blanchard. Professors-Bell-Metereau, Brunson, Busby, A. Chavkin, P. Cohen, Deduck-Evans, Gravitt, Grayson, D. Gross, Heaberlin, Hennessy, Hill, Ingram, Laird, Lochman, Parkin-Speer, R. Randolph, C. Ronan, Rosenbalm, Skerpan-Wheeler, M. Wilson. Associate Professors-Blair, Gilb, Grimes, Hankins, Holt, R. Jones, Leder, Monroe, C. Nelson, M. Olson, Peirce, Starling, Tangum, S. Wilson. Assistant Professors-Braffett, Garza-Falcón, M. Gross, Mejía, Morrison, Rosenberg, Thompson, Tolbert. Instructors-S. Beebe, A. Randolph, D. Ronan, N. Wilson. Lecturers-Braud, R. Cohen, Hanson, R. Kennedy, Kubala, P. Margerison, P. Pohl, Tilka.*

Although housed in a single department, English includes three disciplines: writing, literature, and language. The department teaches writing to nearly every first-year student enrolled at SWT and offers several creative and technical writing courses. Its literature program includes a range of courses from Shakespeare and modern drama to film and women's literature. The department also teaches courses about the history and structure of the English language. English majors learn to think, write, and speak clearly; to read literature with pleasure and understanding; and to appreciate the power and subtlety of language.

While gaining a broad liberal education, English majors also learn practical skills that provide a base for almost any career. Graduates traditionally enter the fields of education, journalism, publishing, or communications. They also work for computer, engineering, and public relations firms or pursue careers in politics and government. An English background provides excellent training for law school and other graduate programs.

For further information, call 512-245-2163, or fax 512-245-8546 or visit the department in FH 365.

### English Major or Minor

A major in English requires 36 hours; a minor in English, 24 hours. Course requirements are as follows:

1. **First Year English.** English 1310 and 1320 are prerequisites to all other English courses.
2. **Sophomore Literature.** Majors and minors will select any two of the following sophomore literature courses: \*2310, 2320, \*2330, 2340, \*2359, 2360. Students who earn a grade of B or above in the first sophomore course may, with permission from the chair of their major department and school dean, elect to take an advanced literature course in lieu of the second sophomore course. No more than six hours of sophomore literature count toward the major. English 2351 and 2384 do not count toward the major or minor.
3. **English 3301.** This course is required for majors, open to minors. Students should take it immediately after completing the sophomore literature requirement.
4. **Advanced Courses.** Majors must take seven advanced courses, in addition to English 3301. Minors must take four advanced courses. *Majors must take at least one advanced course from each of the four groups below.* They also select nine hours of electives from one or more groups. In selecting from groups or in choosing electives, students are encouraged to take at least two courses which center on genre, theme, or theory. One of the advanced courses must focus on the works of a single author (3343, 3354, 4351, 4355, or 4358). The department recommends that students take this course at the end of the major. *Minors must take advanced courses from at least two different groups.* They are encouraged to take at least one course which centers on genre, theme, or theory.
- \*5. **Literature before 1800.** Majors must take at least 6 hours of literature before 1800; minors, at least 3. Sophomore and advanced courses which satisfy this requirement are identified by an asterisk in Sections 2 and 4 above.

**Group A. British Literature:** \*3351, \*3352, \*3353, \*3354, \*3356, \*3357, \*3359, 3362, 3365, 3368, 3370, \*4351, \*4355, \*4358.

**Group B. American Literature:** 3309, 3326, 3331, \*3333, 3335, 3336, 3338, 3344, 3345, 3346, 3347, 4325, 4334.

**Group C. World Literature:** 3321, 3322, 3323, 3325, \*3327, 3328, 3329, 3341, 3350, 3385, 3386, 3388, \*3392.

**Group D. Forms, Language, and Writing:** 3302, 3303, 3311, 3315, 3316, 3320, 3319, 3342, 3343, 3348, 3349, 3389, 4310, 4323, 4348, 4349.

### English Major with Secondary Teaching Certificate

Students who seek a B.A. in English with Secondary Teaching Certificate must meet the same requirements as majors not seeking teacher certification, with the following modifications:

1. Six hours from Group B. In selecting advanced courses, students must include at least two courses from Group B, American Literature.
2. Six hours from Group D. Students must also include English 3319 or 4310 and English 3389 from Group D, Forms, Language, and Writing.

### Minor in Writing

A minor in writing requires 24 semester hours. Students may choose an emphasis in professional writing or in creative writing, or they may take courses in both types of writing. Students majoring in English may not minor in writing. Requirements are as follows:

English 1310, 1320	English 3311
English 2310 or 2320 or 2330 or 2340 or 2359 or 2360	English 3315
English 3303	English 3342
	One advanced literature elective

## Minor in Southwestern Studies

A minor in Southwestern Studies requires 18 semester hours, including English 3345 and 3346, the interdisciplinary core courses. The remaining 12 semester hours may be selected from the courses listed below. Students should check with individual departments for all course prerequisites.

Agriculture 2421	Geography 3308, 3329, 4313
Anthropology 3314, 3315, 3331A, C, 3350	History 3320, 3325, 3353, 3372, 4372
ArtH 3302, 3304, 4303	Political Science 4331, 4338, 4358
Biology 3460, 4410, 4421, 4422	Social Work 4310
Curriculum and Instruction 3332	Sociology 3327, 3376B, 3366
English 4325	Spanish 3320, 3371, 4350

Relevant special topics courses may be substituted with permission of the Director of the Center for the Study of the Southwest, FH 327.

## Minor in Medieval and Renaissance Studies

A minor in Medieval and Renaissance Studies requires 24 semester hours, including six hours of core courses, one in English and one in History: English 2310 or 2330 and History 2310 or 2311. The remaining 18 semester hours may be selected from the courses listed below; no more than 3 courses in a single department may count toward this minor. Students should check with individual departments for all course prerequisites.

ArtH 2301, 2302, 4306, 4322	Music 3315
Dance 4368, 4369	Philosophy 2311
English 3351, 3352, 3353, 3354, 3356, 3392, 4351, 4355, 4358	Political Science 3332, 3333, 4313
History 3312, 3315, 4307, 4317	Technology 3322
Mathematics 4311	Theatre 3320
Modern Languages: French 3301, German 3301, Spanish 3301	

Relevant special topics courses may be substituted with permission of the Director of Medieval and Renaissance Studies.

## Minor in Media Studies

A minor in Media Studies requires 18 semester hours, including Mass Communication 2319 and English 3316 as core courses. Students may select the remaining 12 semester hours from the courses listed below, choosing not more than three courses from any single department (including core courses). Students should check with individual departments for all course requirements. A course may not be used to fulfill both a major and a minor requirement.

Anthropology 3309	Honors 3391H, 3391L, 3391R, 3391S
ArtH 4304	Mass Communication 3355, 3375, 4301, 4336B
English 3327, 3329, 3340P	Spanish 4350
Family and Consumer Sciences 3391	Political Science 4301
Geography 2411, 3416, 4412, 4422, 4426, 4427	Speech Communication 4317D
	Theatre 3341, 3342

Relevant special topics courses may be substituted with permission of the Director of Media Studies.

## **Bachelor of Arts Major in English (Minimum required: 128 semester hours)**

### Notes:

1. Candidates must satisfy general studies requirements (page 60) and BA requirements (page 70).
2. See requirements listed above for English major and English major with teaching certificate.
3. BA candidates must complete an approved minor; those who wish to include a certificate must complete a minor or a second teaching field.
4. Candidates for a certificate must complete the following courses: Curriculum and Instruction 3325, 4332, 4341, 4343; Reading 3324; and Education 4681.

<b>Freshman Year</b>	<b>Hours</b>
Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Modern Language* .....	6-8
Natural Science Perspective.....	7-8
Phy. Fitness Perspective (2 courses).....	2
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Total:	31-34

**Sophomore Year** **Hours**

English 2310, 2320, 2330, 2340, 2359, 2360.....	6
BA Science Requirement.....	3-4
Mathematics (1315 or higher) .....	3
Modern Language*.....	6
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Social Science Perspective .....	3

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Total:	30-31
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**Junior Year** **Hours**

English 3301 .....	3
Art, Dance, Music, or Theatre 3313 .....	3
English, advanced .....	9
Minor .....	12
Other courses or as required .....	7

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Total:	34
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**Senior Year** **Hours**

Capstone Course .....	3
English, advanced .....	12
Other courses as required.....	6
Minor .....	12

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Total:	33
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**Bachelor of Arts**  
**Major in English**  
**(Minimum required: 130-137 semester hours**  
**with teaching certification)**

**Freshman Year** **Hours**

Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Modern Language*.....	6-8
Natural Science Perspective.....	7-8
Social Science Perspective .....	3

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Total:	32-35
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Sophomore Year	Hours
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English 2310, 2320, 2330, 2340,.....	6
2359, 2360	
BA Science Requirement.....	3-4
Mathematics (1315 or higher) .....	3
Modern Language*.....	6
Philosophy 1305 .....	3
Phy. Fitness Perspective (2 courses).....	2
Political Science 2310, 2320 .....	6
Second Teaching Field or Minor .....	3

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Total:	32-33
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Junior Year	Hours
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English 3301 .....	3
Art, Dance, Music, or Theatre 3313 .....	3
Curriculum and Instruction 3325, 4332 .....	6
English, advanced .....	9
Second Teaching Field or Minor .....	12-15

Total:	33-36
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Senior Year	Hours
English 3389** .....	3
Curriculum and Instruction 3310, 4343, Reading 3324, Education 4681 .....	15
English, advanced .....	9
Second Teaching Field or Minor .....	6
Total:	33

\*Also satisfies international perspective in a spoken foreign language.

\*\*Also satisfies capstone course requirement.

## Courses in English (ENG)

### First-Year Courses

Requirements in first-year English must be completed before a student takes any other English course.

**1300 Developmental Writing. (3-0)** Basic composition skills. Offered to students who have failed the TASP writing test or for those who need developmental work before taking English 1310. Does not count toward any degree offered by the university.

**1310 (ENGL 1301) College Writing I. (3-0)** Expository writing as a means of exploring and shaping ideas. Emphasis on critical reading and the improvement of essays through revision.

**1320 (ENGL 1302) College Writing II. (3-0)** Continuation of English 1310. Expository writing as a means of analyzing and understanding texts. Research paper required.

### Sophomore Courses

Requirements in sophomore English must be completed before a student takes any advanced work in English.

Students required to take six semester hours of literature may choose any two of the following courses unless their degree program specifies a particular sequence: English 2310, 2320, 2330, 2340, 2359, 2360. Only six semester hours of sophomore literature may be taken for credit. Students who earn a B or above in the first sophomore course may, with permission from the chair of their major department and school dean, elect to take an advanced literature course in lieu of the second sophomore course.

**2310 (ENGL 2322) British Literature before 1785. (3-0)** Representative authors and works of British literature from the beginnings through the Neoclassical Period.

**2320 (ENGL 2323) British Literature since 1785. (3-0)** Representative authors and works of British literature from the Romantic Period to the present.

**2330 (ENGL 2332) World Literature before 1600. (3-0)** Representative authors and works of literature from the ancient world to the early modern world. Readings may come exclusively from the Western tradition or from various literary traditions, such as those of Africa and Asia.

**2340 (ENGL 2333) World Literature since 1600. (3-0)** Representative authors and works of literature from the modern world. Readings may come exclusively from the Western tradition or from various literary traditions, such as those of Africa and Asia.

(WI) **2351 Writing for Science and Technology. (3-0)** The study of exposition, adapted to the needs of science majors; writing of reports and reading of scientific essays; also satisfies the pre-engineering requirement; does not substitute for a sophomore literature course in any degree plan for teacher certification.

**2359 (ENGL 2327) American Literature before 1865. (3-0)** Representative authors and works of American literature from the beginnings through the Civil War.

**2360 (ENGL 2328) American Literature since 1865. (3-0)** Representative authors and works of American literature from the Civil War to the present.

(WI) **2384 Poetry and Fiction Writing. (3-0)** A workshop in imaginative writing. The course acquaints students with practical criticism and contemporary trends, allowing the development of creative skills. This course does not take the place of required sophomore courses except in the writing minor.

### Junior-Senior Courses

(WI) **3301 Literature and the Contemporary Reader. (3-0)** Current approaches to literature with attention to reading strategies and artistic techniques and conventions. (Required for majors; open to minors; should be taken immediately after completing the six-hour sophomore requirement.)

(WI) **3302 Film and Video Theory and Production. (3-0)** The study of film and narrative theory combined with the practice of videography and video editing.

(WI) **3303 Technical Writing. (3-0)** The study and practice of expository writing in technical and scientific professions. Emphasis on planning, writing, revising, editing, and proofreading proposals, reports, and other forms of professional communication for a variety of audiences. Computer technology included.

(WI) **3309 The Southwest in Film. (3-0)** A survey of films of the Southwest, emphasizing the history and cultural diversity of the region as represented on screen.

- (WI) **3311 Advanced Writing. (3-0)** The writing of expository essays, with emphasis on achieving a clear and graceful style.
- (WI) **3313 Software Documentation for Computer Science Majors. (3-0)** A companion to CS 3398, covering the composition techniques, including planning, organization, revision, standard language use, and audience identification problems necessary for producing the required documents and reference manuals for software documentation.
- (WI) **3315 Introduction to Creative Writing. (3-0)** A critical seminar for writers of fiction, poetry, and articles. Creativity, criticism, and revision are emphasized.
- (WI) **3316 Film and Prose Fiction. (3-0)** A comparative study of major novels and the films which have been made from them. (Capstone Course)
- 3319 The Development of English. (3-0)** Origin and growth of the English language with particular attention to phonological, morphological, and grammatical changes; history of dialects, spelling, and dictionaries; sources of vocabulary.
- (WI) **3320 Literary Criticism. (3-0)** A study and application of critical approaches from Aristotle to the present, with emphasis on problems of modern criticism.
- (WI) **3321 The Short Story. (3-0)** The short story throughout the world since Poe and Gogol.
- (WI) **3322 The European Novel. (3-0)** Major continental novelists from Cervantes to the present, read in translation.
- (WI) **3323 Modern Poetry. (3-0)** Modern poetry in English and English translation.
- (WI) **3325 Russian Literature in Translation (3-0)** An examination of major 19th and 20th century works of Russian literature, in translation, from three points of view: their literary value (use of language, style, characterization, theme, structure, techniques); their relation to and influence on European literature; and their illumination of Russian culture and history.
- (WI) **3326 American Drama on Film. (3-0)** Masterpieces of American drama and the films which have been made from them.
- (WI) **3327 Types of World Drama in English. (3-0)** Examples of world drama and film adaptations from Aeschylus to Ibsen.
- (WI) **3328 Types of World Drama in English (Modern). (3-0)** Significant examples of world drama in English from Ibsen to O'Neill, Williams, and Miller.
- (WI) **3329 Mythology. (3-0)** A study of myths in ancient cultures, mythic patterns in modern literature, and Hollywood as mythmaker.
- (WI) **3331 African-American Literature. (3-0)** African-American poetry, drama, and fiction.
- (WI) **3333 Early American Literature: The New World, the Colonies, and the American Renaissance. (3-0)** A survey of American literature from its beginnings to 1865.
- (WI) **3335 American Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism. (3-0)** A survey of American literature from the Civil War to 1930.
- (WI) **3336 American Literature, 1930 to the Present: From Modernism to Contemporary Forms. (3-0)** A survey of American literature from 1930 to the present.
- (WI) **3338 The American Novel. (3-0)** A study of the novels and pertinent criticism from the beginnings in America.
- (WI) **\*3340 Special Topics in Language and Literature. (3-0)** A different offering each semester. May be taken as an individual tutorial with permission of the Chair of the Department of English and approval of the assigned instructor.
- (WI) **3341 Studies in World Literature. (3-0)** Selections from ancient and modern literature in western and/or non-western cultures.
- 3342 Editing. (3-0)** A study of editing, to include instruction in making editorial changes, preparing MSS for typesetter, marking galley and page proof; fundamentals of layout and design (typeface, paper, headlines, etc.); problems and possibilities in desktop publishing; and the current status of electronic publications.
- (WI) **3343 The Interdisciplinary Approach to Literature. (3-0)** The study of a single author, e.g. Saul Bellow, Charles Dickens, Flannery O'Connor, or Virginia Woolf, from an interdisciplinary perspective. (Capstone Course)
- (WI) **3344 Chicano/a Narrative and Social History. (3-0)** A survey of narrative written by U.S. citizens of Mexican descent.
- (WI) **3345 Southwestern Studies I: Defining the Region. (3-0)** The first of two courses in a broad interdisciplinary survey of geophysical, cultural, social, literary, and political history of the Southwest that emphasizes regional and ethnic expressions of culture in architecture, art, economics, law, literature, philosophy and politics.
- (WI) **3346 Southwestern Studies II: Consequences of Region. (3-0)** The second of a two-course sequence in a broad interdisciplinary survey of geophysical, cultural, social, literary, and political history of the Southwest, emphasizing regional and ethnic expressions of culture in architecture, art, economics, law, literature, philosophy, politics, popular culture, religion, social science, and technology.
- (WI) **3347 American Poetry. (3-0)** A study of American poetry from its beginnings to the present.
- (WI) **3348 Creative Writing: Fiction. (3-0)** A seminar for writers of fiction, with emphasis on creativity, criticism, and revision. Prerequisite: English 3315.
- (WI) **3349 Creative Writing: Poetry. (3-0)** A seminar for writers of poetry, with emphasis on creativity, criticism, and revision. Prerequisite: English 3315.
- (WI) **3350 Medieval European Literature. (3-0)** Studies of Medieval contexts, genres, and writings across Europe.
- (WI) **3351 Anglo-Saxon Language, Literature, and Culture. (3-0)** An introduction to Old English life and writings from early culture through Beowulf (texts in modern translation).
- (WI) **3352 Medieval English Literature. (3-0)** Studies of important non-Chaucerian writings in the Middle Ages, some in modern translations.
- (WI) **3353 British Poetry and Prose of the Sixteenth Century. (3-0)** Major poets and prose writers from More to Spenser.
- (WI) **3354 Shakespeare. (3-0)** Selected plays from the earliest through Hamlet.
- (WI) **3356 British Poetry and Prose of the Seventeenth Century. (3-0)** Prose and poetry from Donne and Bacon to Milton and Dryden.

(WI) **3357 English Literature of the Restoration and Augustan Periods, 1660-1750. (3-0)** The development of classicism through Pope and Swift.

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\*May be repeated with a change of emphasis.

(WI) **3359 English Literature, 1750-1800. (3-0)** The decline of classicism and the romantic beginning.

(WI) **3362 The English Romantics. (3-0)** English poetry and prose of the Romantic Age.

(WI) **3365 Victorian Literature. (3-0)** Developments in Victorian poetry and prose as these apply to the student's cultural background.

(WI) **3368 The English Novel. (3-0)** English prose fiction.

(WI) **3370 Twentieth-Century British Literature. (3-0)** Selected poetry, fiction, and drama since 1900.

(WI) **3385 Children's Literature. (3-0)** A survey of traditional and contemporary literature for children with attention to literary history, aesthetic qualities, and critical approaches.

(WI) **3386 Adolescent Literature. (3-0)** A survey designed to provide a critical philosophy and working repertoire of literature for adolescents.

(WI) **3388 Women and Literature. (3-0)** A survey of women's writing in English, in various genres, over a period of some 600 years (14th century to the present).

(WI) **3389 The Discipline of English. (3-0)** The nature of English studies as a formal field, its components and their relationships. Open only to candidates with 90 semester credit hours. (Capstone Course)

(WI) **3392 Women Writers of the Middle Ages. (3-0)** Religious and secular writings by women from the early Church through the 15th century.

**4310 Modern English Syntax. (3-0)** A study of English syntax as described by traditional, structural, and transformational grammarians, with major emphasis on transformational-generative syntax.

**Note:** The 4000-level courses listed below have a prerequisite of six advanced hours of English. These courses are also offered on the 5000 level with basically the same content. The course may be taken for credit on one level only.

(WI) **4323 Studies in Autobiography and Biography. (3-0)** Selected works in autobiography and biography.

(WI) **4325 Literature of the Southwest. (3-0)** The literature of Texas and the surrounding territory; various types of non-fiction prose, fiction, and poetry.

(WI) **4334 The Concord Writers. (3-0)** Emerson, Thoreau, and Hawthorne, with attention to intellectual backgrounds and literary relationships.

(WI) **4348 Senior Seminar in Fiction Writing. (3-0)** An advanced seminar in the writing of fiction, with emphasis on imaginative thinking and critical evaluation of manuscripts, peer critique, and preparation of manuscripts for submission for publication will be emphasized. Prerequisite: English 3348.

(WI) **4349 Senior Seminar in Poetry Writing. (3-0)** An advanced seminar in the writing of poetry, with emphasis on imaginative thinking and critical evaluation of manuscripts, peer critique, and preparation of manuscripts for submission for publication will be emphasized. Prerequisite: English 3349.

(WI) **4351 Chaucer and His Time. (3-0)** The works of Chaucer and their significance in an important literary and social era.

(WI) **4355 The Later Shakespeare. (3-0)** The problem comedies, through the tragedies, to the plays of the final years; emphasis on reading in depth the plays, significant critical materials, and selected plays by Shakespeare's contemporaries.

(WI) **4358 Milton. (3-0)** Milton's longer poems and most important prose writing.

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**

## **Department of Geography and Planning**

*Chair and Professor-Estaville. Professors-Augustin, Boehm, Butler, Eyton, Hardwick, Harrison, Larsen, Moore, Petersen, Stea. Associate Professors-Colten, Day, Earl, Fitzsimons, Kimmel, Macey, Rudnicki, Shelley, Visser. Assistant Professors-Blanchard-Boehm, Brown, Dixon, Showalter, Tiefenbacher, Tuason, Zhan. Lecturer-Caldwell.*

### **Admission into a Major in Geography**

Students who meet the university admission requirements can enter the Department of Geography and Planning's undergraduate program as pre-majors. To become a major in geography, students must:

1. Complete 1309 or 1310, 2410, and 3301 with a combined GPA for these courses of at least 2.40.
2. Complete 45 or more credit hours with an overall GPA of at least 2.5.

### **Requirements for a Major in Geography**

Students planning to obtain a degree in geography may do so as a candidate for the Bachelor of Arts (BA) or the Bachelor of Science (BS). To graduate, a student must have a 2.50 in Geography and Planning as well as a 2.50 GPA overall.

A major in the BA requires a minimum of 30 semester hours and the BS requires a minimum of 36 semester hours. A minor of at least 18 semester hours is required (see requirements for a minor under degrees and programs section). No more than six semester hours of geography may count as electives beyond the requirements for a major or minor.

A variety of degree options and concentrations are available in the Department of Geography and Planning: 1) General Geography (BA, 323.10/BS, 323.20), 2) Cartography/Geographic Information Systems (BA, 314.10/BS, 314.20), 3) Resource and Environmental Studies (BA, 315.10/BS, 315.20), 4) Urban and Regional Planning (BA, 316.10/BS, 316.20), and 5) Physical Geography (BS only, 313.00). These are described in the following pages. Students may fulfill their degree requirements under the general geography option with any combination of courses approved by their advisor.

**Notes:**

Teacher certification is available in either the BA or the BS. Students pursuing secondary certification are encouraged to major in general geography with Option I or Option II. Advisor: Brown

The recommended options are:

1. General Geography with Secondary Certification/Option I, (BA, 323.15/BS, 323.25) requires a minimum of 30 hours for BA and 36 hours for BS of geography (21 hours upper division) including 1309, 1310, 2410, 3303, 3309, 3313, 3329, 4340, and one of the following: 3411, 3416, or 4426.
2. General Geography with a Secondary Certification/Option II, ( BA, 323.16/BS, 323.26) requires 25 hours for non-majors including the following geography courses: 1309, 1310, 2410, 3303, 3309 3313, 3329, 4340 and majors must take one of the following: 3411, 3416, or 4426. Students in the two foregoing options must also take 21 hours in Curriculum and Instruction.
3. Elementary Certification/Option II (225.14, not a major in Geography) requires the following courses: 1309, 1310, 2410, 3309, 3329, 4340.

To be allowed to take the Geography ExCET, students must have accomplished:

1. Students must have successfully completed 1309, 1310, 2410, 3309, 3329, and 4340 within the six years immediately before taking the ExCET licensing exam for teachers or must have pass a department comprehensive examination.
2. Students must have an overall Geography and Planning GPA of 2.5 or higher with no grade lower than a C.
3. Students must have attended an ExCET preparation session conducted by the Department of Geography and Planning.
4. All external students taking the ExCET in geography at SWT must meet the same requirements as Geography and Planning majors and minors.

## Bachelor of Arts or Bachelor of Science Major in Geography (Minimum required: 129-130 semester hours)

The BA and BS are general degrees designed to improve students' understanding of the world in which they live. They are also tailored to improve the analytical skills necessary to interpret real-world problems in the cultural and physical environment. The degrees prepare students for employment in business, government, planning, foreign service, mapping, industrial location, marketing research, resource evaluation, environmental analysis, transportation, and other fields.

### Notes:

1. Majors must take a minimum of 30 semester hours in geography for a BA and a minimum of 36 semester hours for a BS and a minimum of 18 hours in their minor field.
2. Any faculty member may serve as an advisor for a BA or BS student.
3. Majors in general geography may choose from any sequence of courses approved by their advisors, or they may take courses according to one of the concentrations listed on the following pages.
4. General Studies requirements for this degree are listed in the College of General Studies section.
5. Students pursuing a BA with substantial previous language experience may meet their language requirement by completing as few as 6 hours at the sophomore level. Most students will need to complete the first year of the language requirement (1410 and 1420) before beginning 2310. Students pursuing a BS who have satisfactorily completed two years of modern language in high school, or who have graduated from high school prior to 1988, will have their modern language requirement waived.

<b>Freshman Year</b>	<b>Hours</b>
English 1310, 1320.....	6
General Studies 1100.....	1
Geography 1309 or 1310 .....	3
History 1310, 1320 .....	6
Modern Language.....	8
Natural Science Perspective.....	7-8
Phy. Fitness Perspective (2 courses).....	2
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33-34	

<b>Sophomore Year</b>	<b>Hours</b>
Communication 1310 .....	3
Geography 2410 .....	4
English (Literature).....	6
Mathematics (1315 or above) .....	3
Modern Languages 2310, 2320 .....	6
Political Science 2310, 2320 .....	6
Social Science Perspective*.....	3
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31	

<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Electives .....	6
Geography, advanced.....	12
Minor .....	9
Philosophy 1305 .....	3
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33	

<b>Senior Year Hours</b>	
Electives .....	6
Geography, advanced.....	15
International Perspective .....	3

\*Not Geography 1310.

**Bachelor of Arts or Bachelor of Science  
Major in Cartography/Photogrammetry  
(Minimum required: 129-130 semester hours)**

*Advisors: Eyton, Fitzsimons, Macey, Rudnicki, Showalter, Zhan*

Majors must take a minimum of 30 semester hours in geography for a BA and a minimum of 36 semester hours for a BS and a minimum of 18 hours in their minor field. A minimum of six hours of mathematics (Mathematics 1315 or above and an additional three hours of math or computer science) are required.

**Select six of these geography courses:**

- 3301 Quantitative Methods in Geography
- 3411 Map Compilation and Graphics
- 3416 Air Photo Interpretation
- 4380 Internship in Geography and Planning
- 4411 Map Design
- 4412 Remote Sensing
- 4422 Computer Cartography
- 4426 Geographic Information Systems
- 4427 Geographic Information Systems II
- 4430 Field Methods
- 4440 Topics in Cartography (Can be repeated with change in content.)

**Bachelor of Arts or Bachelor of Science  
Major in Urban and Regional Planning  
(Minimum required: 129-130 semester hours)**

*Advisors: Caldwell, Day, Harrison, Kimmel, Larsen, Zhan*

Majors must take a minimum of 30 semester hours in geography for a BA and a minimum of 36 semester hours for a BS. A minor, as well as other supportive course work, should be selected in a related field in consultation with the advisor.

**The required geography courses are:**

- 3320 Community and Regional Planning
- 4321 Planning Methods and Procedures
- 4338 Land Use Planning

**Select at least one of these geography courses:**

- 3301 Quantitative Methods
- 3411 Map Compilation and Graphics
- 3416 Air Photo Interpretation
- 4426 Geographic Information Systems

**Select from these courses to complete your program:**

- 3303 Economic Geography
- 3310 Urban Geography
- 3321 Energy Resource Management
- 3323 Location Analysis
- 3334 Water Resources Management
- 3349 Population Geography
- 4313 Environmental Management
- 4336 Transportation Systems
- 4339 Environmental Hazards and Land Management
- 4350 Solid Waste Planning and Management
- 4380 Internship in Geography and Planning

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Note: For those planning students not continuing beyond the bachelor's degree, an internship is strongly recommended.

**Bachelor of Arts or Bachelor of Science  
Major in Resource and Environmental Studies  
(Minimum required: 129-130 semester hours)**

*Advisors: Augustin, Blanchard-Boehm, Boehm, Butler, Colten, Day, Earl, Kimmel, Larsen, Macey, Petersen, Shelley, Showalter Tiefenbacher, Tuason, Visser*

Majors must take a minimum of 30 semester hours in geography for a BA and a minimum of 36 semester hours for a BS and a minimum of 18 hours in their minor field.

**Select at least three of these courses:**

- 3334 Water Resources Management
- 4313 Environmental Management
- 4338 Land Use Planning
- 4350 Solid Waste Planning and Management

**Select at least one of these courses:**

- 3301 Quantitative Methods in Geography
- 3416 Air Photo Interpretation
- 4412 Remote Sensing
- 4426 Geographic Information Systems
- 4430 Field Methods

**Select from these courses to complete your program:**

- 3303 Economic Geography
- 3305 Applied Meteorology and Climatology
- 3313 Natural Resource Use and Planning
- 3320 Community & Regional Planning
- 3321 Energy Resource Management
- 3325 Geomorphology
- 3335 Oceanography
- 3340 Political Geography
- 3349 Population Geography
- 3411 Map Compilation and Graphics
- 4339 Environmental Hazards and Land Management
- 4380 Internship in Geography and Planning
- 4427 Geographic Information Systems II

**Bachelor of Science**  
**Major in Applied and Physical Geography**  
**(Minimum required: 129-130 semester hours)**

*Advisors: Dixon, Earl, Petersen*

This degree emphasizes the physical science elements of geographical study. The degree prepares students for employment in business, government, applied climatology and meteorology, resource evaluation, environmental analysis, and areas where an understanding of the complex relationship between nature and society is required.

Students earning the BS in Physical Geography must take 36 semester hours of course work in the department and a minimum of 18 hours in their minor field.

**The following courses are required (9 hours):**

- 3305 Applied Meteorology and Climatology
- 3325 Geomorphology
- 3335 Oceanography

**Select at least three of the following (10-12 hours):**

- 3301 Quantitative Methods in Geography
- 3411 Map Compilation and Graphics
- 3416 Air Photo Interpretation
- 4380 Internship in Geography and Planning
- 4412 Remote Sensing
- 4422 Computer Cartography
- 4426 Geographic Information Systems
- 4430 Field Methods

**The following course is required:**

- 3313 Natural Resource Use and Planning

**AND Choose two of the following:**

- 3321 Energy Resource Management
- 3334 Water Resources Management
- 4313 Environmental Management
- 4314 River Basin Management
- 4339 Environmental Hazards and Land Management
- 4350 Solid Waste Disposal Planning and Management

**Bachelor of Arts or Bachelor of Science**  
**Major in Geography**  
**(Minimum required: 129-130 semester hours)**

*Advisors: All faculty*

Majors must take a minimum of 30 semester hours in geography for a BA and a minimum of 36 semester hours for a BS and a minimum of 18 hours in their minor field.

This major is designed for students with unique needs better met by an individualized program. Course requirements in this major include 1309, 1310, and 2410. Other courses are to be selected in consultation with the advisor.

**Minor in Nature and Heritage Tourism**

Nature and heritage tourism are the most rapidly growing segments of the overall tourism industry, which is currently one of the largest industries in the world. The minor in Nature and Heritage Tourism (24 hours) concentrates on planning, development, and management of nature and heritage tourism activities that have a strong learning content.

The minor in Nature and Heritage Tourism is interdisciplinary, drawing on courses from eleven departments. The minor consists of nine hours of core courses (NHT 4301, NHT 4302, and problems courses from participating departments, plus fifteen hours of specific courses from Accounting; Agriculture; Anthropology; Biology; English; Geography and Planning; Health, Physical Education and Recreation; History; Management and Marketing; Political Science; and Sociology. (See Degrees and Programs for specific courses.) Students cannot use courses from their own major for the minor.



## Courses in Geography (GEO)

**1309 (GEOG 1302) Cultural Environment. (3-0)** The study of the interrelationship of the cultural and physical environment. Emphasis will be placed on the characteristics of world patterns of human organization and distribution as viewed in contemporary geography.

**1310 (GEOG 1303) World Geography. (3-0)** This course stresses the similarities and differences of the major world regions. Emphasis is given to human behavior in a spatial context.

**2350 Introduction to Community and Environmental Planning. (3-0)** An overview of community, environmental, and regional planning. Examples of the contemporary topics discussed are land use problems and regulation, water rights, transportation trends, and sustainable environments.

**2410 Physical Environment. (3-2)** A systematic study of the various elements that make up the Earth's physical environment, weather, climate, vegetation, soil, and landforms.

**2411 Maps and Society. (2-4)** An introduction to map use designed to serve all university students. A wide variety of maps including cognitive maps, thematic, topographic, and weather are surveyed from the points of view of their correct uses and appropriate interpretations. No drafting background or artistic ability needed.

**3301 Quantitative Methods in Geography. (3-0)** Introduction to quantitative methods commonly used by geographers and planners to describe, explain, and predict human spatial organization. The objective is to increase understanding of spatial structures and processes through problem solving, including the definition and statistical measurement of areal associations, the optimization of location decision making, and the use of other modeling techniques to describe and explain cultural and physical associations. Basic statistical techniques will be taught in this course.

**3303 Economic Geography. (3-0)** An analysis of world distribution of fundamental occupations and commodities.

(WI) **3305 Applied Meteorology and Climatology. (3-0)** Introduction to the elements of weather, observation and instrumentation, forecasting, and applications. Use of meteorological equipment and instrumentation. Problem solving in synoptic meteorology and forecasting techniques. Prerequisite: Geography 2410 or equivalent.

**3306 Geography of the American South. (3-0) A regional analysis of the American South with emphasis on both physical and human topical issues and current problems.**

**3307 Geography of Europe. (3-0)** A regional treatment of the continent with emphasis on cultural patterns in various natural regions.

(WI) **3308 Latin America. (3-0)** A regional survey of the physical and cultural geography of Latin America.

**3309 United States and Canada. (3-0)** A regional analysis of the United States and Canada with emphasis on population, settlement patterns, and economic development.

**3310 Urban Geography. (3-0)** The study of city systems, form, and development with emphasis on functional patterns, economic base, industrial location, service, and social area analysis.

**3313 Natural Resource Use and Planning. (3-0)** Problems involved in the use and conservation of natural and agricultural resources.

(WI) **3320 Community and Regional Planning. (3-0)** History and development of planning in the United States, organizational and legal frameworks for planning, and an analysis of planning approaches and procedures, particularly within the context of the comprehensive plan.

(WI) **3321 Energy Resource Management. (3-0)** An analysis of energy sources, their distribution and characteristics, and the problems associated with their use and management.

(WI) **3323 Location Analysis. (3-0)** Location and movement stressed in terms of the factors considered in locating industry, business, housing, and community facilities.

**3325 Geomorphology. (3-0)** The study of landforms, their origins, and practical significance; interpretation of landscapes in the field and from photographs and maps. Prerequisite: Geography 2410 or equivalent.

**3328 Geography of North Africa and the Middle East. (3-0)** A regional treatment dealing with the physical features and cultural activities of the people in North Africa and the Middle East.

**3329 Geography of Texas. (3-0)** A physical and cultural geography of Texas with special emphasis on human resources and economic activities.

(WI) **3331 Population Geography of Russia and Eastern Europe. (3-0)** The geographic study of population and environmental issues of Russia and Eastern Europe.

(WI) **3332 Geography of South and Southeast Asia. (3-0)** A regional overview of the physical and human geography of the countries of the Indian subcontinent and Southeast Asia.

(WI) **3333 Geography of China and Japan. (3-0)** A regional survey of East Asia with emphasis on modern geography and the role these countries play in the world geopolitical scene.

**3334 Water Resources Management. (3-0)** Use, conservation, and management of water resources. The geographic imbalance between the demand for fresh water and its supply. Emphasis on Texas water rights and water districts, environmental and developmental impacts, flood hazards, surface and subsurface water resources, and policy assessment for future water management strategies. Prerequisite: Geography 2410 or equivalent.

**3335 Oceanography. (3-0)** An introductory course on the physical, chemical, and biological characteristics of the oceans and the topography of ocean basins. Emphasis will be placed on the influence of the seas on the earth's environment and the economic importance of oceans. Prerequisite: Geography 2410 or equivalent.

(WI) **3340 Political Geography. (3-0)** Political geography concerns the interrelationship between political activities and spatial distributions. Topics include the concept of the state, political core regions, international spheres of influence and confrontation, boundaries, and contemporary world issues and problems.

**3349 Population Geography. (3-0)** An in-depth study of the spatial distribution and movement of human populations. The course will emphasize current issues and analytical techniques. Topics will include the impact of population growth, spatial diffusion processes, migration trends and theories, explanation of regional demographic differences, and techniques such as population projections.

(WI) **3350 Geography of Aging. (3-0)** This course will examine the spatial distribution of the elderly population and special subgroups within it. Issues, including access to housing, transportation and services, economic and environmental constraints to mobility, and utilization of space will be explored. Spatial variation in needs associated with class, gender, and minority status will form a special focus.

**3353 American Ethnic Geography. (3-0)** A geographical analysis of ethnic groups in the United States with emphasis on their settlement patterns, spatial interactions, and current problems.

**3411 Map Compilation and Graphics. (3-2)** An introduction to map compilation, projections, instrumentation, and graphic techniques in presenting statistical data for planning and geographical analysis.

**3416 Air Photo Interpretation. (2-4)** Introduction to aerial photography, photometrics, and instrumentation utilized in aerial mapping.

**\*4190 Independent Study. (1-0)** Individual study under direct supervision of a professor. May involve field trips.

**\*4290 Independent Study. (2-0)** Individual study under direct supervision of a professor. May involve field trips.

(WI) **4313 Environmental Management. (3-0)** An analysis of the major causes of environmental deterioration together with the basic strategies of dealing with these problems. Prerequisite: Geography 2410 or equivalent.

**4314 River Basin Management. (3-0)** The purpose of this course is to study principles and practices of large-scale river basin management. Emphasis is on integrated management of land and water resources, including economic development and environmental protection issues. Prerequisite: Geography 2410 or equivalent.

**4321 Planning Methods and Procedures. (3-0)** A practical course on the design, analysis, and implementation of planning studies and procedures, with emphasis on methods utilized in planning for housing, community facilities, industry, commerce, and transportation including a discussion of renewal, community development, fund generation, and programming.

(WI) **4328 Geography of the Russian Realm. (3-0)** A regional overview of the physical and human geography of the countries within the former Soviet Union.

**\*4335 Directed Research. (3-0)** Individual and group research projects at the advanced level that are not offered in the present curriculum. Permission and project approval must be obtained from the faculty member prior to registration. This course may be repeated for credit, but a student may not exceed six hours of credit in Directed Research.

**4336 Transportation Systems. (3-0)** A study of the different transportation systems, their development, and meaning at the local and national level.

**4338 Land Use Planning. (3-0)** A study of the patterns, characteristics, and impacts of land use at the local and regional levels. Also, how effective management through the use of such planning tools as the comprehensive plan, capital improvements, programming, subdivision regulations, and zoning influences the utility of land.

**4339 Environmental Hazards and Land Management. (3-0)** Analysis of environmental hazards with respect to human use of the land. Includes geologic hazards and problems caused by floods and meteorological conditions.

(WI) **4340 Fundamental Themes in Geography. (3-0)** Methods and materials for teaching the basic concepts of geography in the elementary and secondary schools with special emphasis on the role of geography in the new social studies curriculum. Enrollment is limited to students in the teacher education track.

**4350 Solid Waste Planning and Management. (3-0)** A survey of the methods of solid waste disposal including waste storage, collection, transportation and disposal, and their short-and long-range effects on the environment. A practical course in the planning, implementation, and management of alternate methods of sanitary waste disposal. Prerequisite: Geography 2410 or equivalent.

**4380 Internship in Geography and Planning. (3-0)** On-the-job training in a public or private-sector agency. Students must apply to the department internship director at least six weeks prior to registering for the internship course. This course may be repeated one time for additional internship credit.

**\*4390 Independent Study. (3-0)** Individual study under direct supervision of a professor. May involve field trips.

**4411 Map Design. (2-4)** Concepts and principles about the graphic elements of a map and their role in the physical and perceptual structure of an appropriate map image. The course considers the importance of map design in cartography and geography and applied computer-assisted mapping techniques to the problems of effective and efficient communication of spatial data. Theoretical and applied aspects of map design are examined through a number of practical exercises and written assignments. Prerequisite: Geography 3411 or equivalent.

(WI) **4412 Remote Sensing. (2-4)** Basic photometrics and the development of indicator sets in imagery analysis. Prerequisite: Geography 3416 or equivalent.

**4422 Computer Cartography. (2-4)** The use of computer software to display information about the Earth's surface and various types of statistical data on maps and graphs. Prerequisite: Geography 3411 or equivalent.

**4426 Geographic Information Systems. (2-4)** Interpretation and analysis of maps stored in digital form. Concepts and practices of geographic data entry, storage, management, retrieval, and display.

**4427 Geographic Information Systems II. (2-4)** This course builds on the basic principles introduced in GEO 4426. It gives a more in-depth understanding of the technical aspects involved in spatial data handling, analysis, and modeling. Theoretical and applied aspects are examined through a series of practical exercises and assignments. Prerequisite: Geography 4426 or equivalent.

(WI) **4430 Field Methods. (2-4)** Methods and techniques for observing, measuring, and recording geographic phenomena. Use of instruments and materials in the collection of data for mapping and field research in the local area. Prerequisites: Geography 2410 and 3301 or equivalents.

**\*4440 Topics in Cartography. (2-4)** Advanced or specialized techniques in cartography, geographic information systems, remote sensing, or other related topics. Specific topics will vary. Student should consult department.

### **Courses in Nature and Heritage and Tourism (NHT)**

**4301 Planning and Development of Nature and Heritage Tourism. (3-0)** **This course applies basic planning and development principles to the special issues of nature and heritage tourism. Particular emphasis is placed on locational analysis, site analysis, and planning for sustainable use.**

**4302 Internship in Nature and Heritage Tourism. (0-10)** Students will work in private or public sector settings to gain practical experience in the planning, development and management of nature and/or heritage tourism. Internships must be approved by the director of the Center for Nature and Heritage Tourism. Students will be expected to perform at high professional standards and will interpret the internship experience within the context of current literature. Prerequisite: NHT 4301

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**

## **Department of History**

*Chair and Professor-Margerison. Professors-Brown, Dunn, Jager, Josserand, Pohl, Swinney, Wilson. Associate Professors-Andrews, Bourgeois, Brennan, Bynum, Cagniart, de la Teja, Garner, Liddle, Yick. Assistant Professors- Arnoult, Barger, Brandimarte, Curtin, Hartman, Makowski, Selcraig. Instructors- Atchison, Brawner, Etienne-Gray, Hindson, Ingram, Snider.*

As an undergraduate major, the discipline of history provides students with skills and knowledge valued in our increasingly global society and economy. Emphasizing both American and non-American societies, cultures, and politics, history imparts important understandings of human motivation and interaction which form an essential background for all current activities whether they be in the realm of business, law, journalism, politics, or education. Students in history develop skills in intensive reading, expository writing, and logical and analytical thinking while learning how to communicate internationally using the department's up-to-date computer facilities.

For further information contact the Department of History at (512) 245-2142, fax (512) 245-3043; if you have internet access ([www.history.swt.edu](http://www.history.swt.edu)) or visit TMH 202.

### **Minor**

A minor in history requires 24 semester hours, normally 1310 and 1320, 2310 or 2311, and 2320 or 2312, plus 12 hours of advanced courses divided equally between Groups A and B.

### **Second Teaching Field**

A second teaching field in history requires 30 semester hours, normally, 1310 and 1320, 2311 and 2312, 6 hours of advanced courses from Groups A, 6 hours from Group B, and 6 hours from Group C. Students seeking certification in history must possess an SWT grade point average of 2.5 in their history courses.

### **Group A, Group B, and Group C Courses**

Advanced courses in history are divided into two categories. Group A includes courses dealing with the history of Asia, Europe, Latin America, and the Middle East. Group B courses treat facets of the history of the United States. Group C courses are specifically designed for students seeking teaching certification in History. History majors and minors are required to divide their advanced courses equally between Group A and Group B. Group C courses do not fulfill the requirements for a major or minor in History.

### **Advanced Standing Examinations**

Students who have a composite score of 23 or better on the ACT examination or who have a B or better average in 15 hours or more of college work are eligible to take Advanced Standing Examinations in History 1310 and 1320. In addition, talented students may earn credit by examination in 1310, 1320, 2310 and 2320.

## **Bachelor of Arts Major in History (Minimum required: 128 semester hours)**

This is a general liberal arts degree designed for students interested in careers in high school or college teaching, government service, museum or library work, journalism, business, etc. A history major requires 30 semester hours, normally 1310 and 1320, 2310 or 2311, and 2320 or 2312, plus 18 hours of advanced courses. The advanced courses must be divided equally between Groups A and B as explained above. This program requires a minor generally of from 18 to 24 semester hours, depending upon which subject is selected. (See minors, page 70).

Students who wish to earn a teaching certificate with this degree may do so by (1) taking the required education courses for certification, and (2) taking a second teaching field in place of the minor. (See requirements for a second teaching field, pages 165-171).

**Bachelor of Arts  
Major in History  
(Minimum required: 138-139 semester hours  
with teaching certification)**

<b>Freshman Year</b>	<b>Hours</b>
Communication 1310 .....	3
BA Science Requirement.....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics (1315 or higher) .....	3
Modern Language* .....	8
Philosophy 1305 .....	3
Phy. Fitness Perspective (2 courses).....	2

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<b>Sophomore Year</b>	<b>Hours</b>
History 2311 and 2312 .....	6
English (Literature).....	6
<b>Political Science 2310, 2320</b>	<b>6</b>
Natural Science Perspective.....	7-8
Social Science Perspective .....	3

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28-29

<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Curriculum and Instruction 3325, 4332.....	9
History 3372 and 9 hours advanced.....	12
Second teaching field.....	12

Senior Year	Hours
History 3369% and 9 hours	
advanced .....	12
Curriculum and Instruction 3310,	
4343, Reading 3323,	
Education 4681 .....	15
Second teaching field.....	12

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\*Students must receive credit for modern language through 2320. Modern language may fulfill International Perspective requirement. in a spoken foreign language.

## Courses in History (HIST)

### Lower Level Courses in History

(WI) **1310 (HIST 1301) History of the United States to 1877. (3-0)** A general survey of the history of the United States from its settlement to the end of Reconstruction.

(WI) **1320 (HIST 1302) History of the United States, 1877 to Date. (3-0)** A general survey of the history of the United States from Reconstruction to present.

(WI) **2310 (HIST 2311) Western Civilization to 1715. (3-0)** A general survey of western civilization from earliest times to the end of the 17th century.

(WI) **2311 (HIST 2321) History of World Civilization to the 17th Century (3-0)** A general survey of world civilization from the earliest times to the 17th Century.

(WI) **2312 (HIST 2322) History of World Civilization from the 17th Century**

**(3-0)** A general survey of world civilization from the 17th Century to the present.

(WI) **2320 (HIST 2312) Western Civilization, 1715 to Date. (3-0)** A general survey of western civilization from the Treaty to Utrecht to the present.

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Note: History 2310 or 2311 and 2320 or 2312 are open to all students regardless of classification. However, it must be understood that History 2310 or 2311 and 2320 or 2312 will not satisfy the legislative requirement in American history, and students majoring in fields other than history would be well advised to begin with History 1310 or 1320.

### Advanced Courses-Group A

(WI) **3310 History of Europe, 1871-1919. (3-0)** The background, the course, and the results of World War I; emphasis on imperialism, diplomatic alliances, nationalistic rivalries, and the Paris peace settlements.

(WI) **3311 History of Europe Since 1919. (3-0)** The rise of Communism, Fascism, and Nazism; the background of World War II, and the post-war problems of peace.

(WI) **3312 Renaissance and Reformation. (3-0)** The cultural, political, and economic changes that marked the transition from the Middle Ages in Europe to the modern period; special attention to the decline of the medieval church and the Protestant revolt.

(WI) **3313 Europe During the Old Regime, 1600-1760. (3-0)** A study of European society and institutions in the 17th and 18th centuries with special attention to the development of absolute and constitutional monarchy, the scientific revolution, and the intellectual ferment of the Enlightenment.

(WI) **3314 Revolutionary Europe, 1760-1815. (3-0)** A study of the dynamics of revolutionary change in France and the rest of the European continent from the period of the Seven Years War through the fall of Napoleon Bonaparte.

(WI) **3315 History of England. (3-0)** The development of the English nation from prehistoric times to the end of the Tudor Dynasty in 1603.

(WI) **3316 History of England. (3-0)** The English nation and the British Empire from 1603 through the modern era.

(WI) **3319 Colonial History of Brazil. (3-0)** The development of the Portuguese society in South America from the sixteenth century until 1822.

(WI) **3320 History of Mexico. (3-0)** A survey of the national period of Mexican history from the independence movement to the present.

(WI) **3322 Colonial History of Latin America to 1828. (3-0)** A study of the colonial period of Latin America from the early Spanish and Portuguese colonization to the beginning of the period of independence.

(WI) **3324 Latin America from Independence to Present. (3-0)** This course examines the history of Latin America from independence to present. Explores the challenges of formation and consolidation of the new states; of economic policy and development; the rise of Populism and the age of reforms; revolutions and revolutionary movements; and present challenges.

(WI) **\*3325 Selected Topics in Latin American History. (3-0)** A study of various subjects or problems in Latin American history. Topics and instructors will vary from semester to semester.

(WI) **3326 The Southern Cone of Latin America. (3-0)** A topical survey of Argentina, Chile, Brazil, and Uruguay which stresses the political balance, geopolitical interests, and forces of commonality and division that have influenced this region since the colonial period.

(WI) **3327 History of Mexico to 1848. (3-0)** A survey of Mexico from prehistoric times to the Treaty of Guadalupe Hidalgo.

(WI) **3329 Spanish Borderlands, 1521-1821. (3-0)** A survey of the social, economic and political development of the frontier regions of Spain's empire in North America.

- (WI) **3358 The Military History of the Western World. (3-0)** A history of military institutions of the western world, with emphasis on the development of military thought, technology, and application from the earliest period to the present.
- (WI) **3361 The Napoleonic Wars. (3-0)** Examines the origin, development and consequences of the Napoleonic Wars, 1754 to 1871.



- (WI) **4303 Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C. (3-0)** A survey of Greek and Hellenistic history from Mycenaean civilization to the Roman conquest of the Eastern Mediterranean.
- (WI) **4304 Ancient Rome and the Mediterranean 500 B.C. to 500 A.D. (3-0)** A survey of Roman History from the Republican period to the fall of the Western Empire with emphasis on its Mediterranean milieu.
- (WI) **4307 Medieval European History, 300-1400. (3-0)** A study of the Latin West and the Byzantine East during the Middle Ages with emphasis on the continuity of Greco-Roman culture as it encounters Islam and the Barbarians.
- (WI) **4309 Europe from 1815 to 1870. (3-0)** A study of the cultural, political, and economic factors that marked the revolutionary rise of nationalism and democracy in the 19th century.
- (WI) **4317 Tudor-Stuart England, 1485-1689. (3-0)** A study of the constitutional, social, political, and religious developments in England during the Tudor-Stuart dynasties.
- (WI) **\*4318 Interpretations of Modern European History. (3-0)** A study of conflicting historical interpretations of several major topics in Modern European history, e.g., Napoleon, Italian Unification, the origins of World War I, Hitler and National Socialism. The topics treated and the instructor will vary from semester to semester.
- (WI) **4320 Origins of Christianity. (3-0)** A survey of the development of the institutional church from the founding of the first primitive communities of believers to the rending of Christian unity in the 16th century.
- (WI) **4333 The History of Russia and Eurasia to 1917. (3-0)** A survey of Kievan Rus, Muscovy, and the Russian Empire to 1917.
- (WI) **4334 The History of Russia and Eurasia from 1917 to Present. (3-0)** A survey of the history of the former Soviet Union and post-Soviet society from 1917 to the present.
- (WI) **\*4335 Selected Topics in 20th Century East European History. (3-0)** A survey of the history of Eastern Europe.
- (WI) **4336 Germany from 1815 to Present. (3-0)** The political, social, economic, and cultural development of Germany since Napoleonic times. Includes the Confederation period, unification under Bismarck, the Second Empire, National Socialism, and the post-war period.
- (WI) **4340 History of the Middle East Since 1914 (3-0)** A survey of the religious, military, intellectual, economic, political, social, and diplomatic history of the Middle East from the event of World War I to the present.
- (WI) **4343 Modern China, 1600-Present. (3-0)** A survey of the political, social, economic, and intellectual history of China from 1600 to the present. Emphasis on the issues of domestic troubles and external aggression, and on the revolutionary changes in the 19th and 20th centuries.
- (WI) **4344 Modern Japan, 1600-Present. (3-0)** A survey of the political, social, economic, and intellectual history of Japan from 1600 to the present. Focus on the radical changes in the state, society, and economy in the 19th and 20th centuries and on the impact of these changes on Japan's status in the world today.

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\*May be repeated for credit with different emphasis with permission of departmental chair.

## Advanced Courses-Group B

(WI) **3340 History of the United States, 1877-1914. (3-0)** A survey of American history from the end of Reconstruction to the outbreak of World War I with an emphasis on the pertinent historical literature.

(WI) **3341 History of the United States, 1914-1945. (3-0)** The study of American history from World War I through World War II with an emphasis on the pertinent historical literature.

(WI) **3342 Social and Intellectual History of the United States, 1607-1865. (3-0)** A history of American culture, with emphasis on the development of religious, political, social, and philosophical ideas through the Civil War.

(WI) **3343 Social and Intellectual History of the United States since 1865. (3-0)** A study of the development of the United States after 1865, with emphasis on the social, political, economic, aesthetic, and philosophical ideas that have influenced contemporary American culture.

(WI) **3344 Economic History of the United States. (3-0)** Economic history of the United States from the colonial times to the present.

(WI) **3346 The Civil War and Reconstruction. (3-0)** The history of the United States from the Compromise of 1850 through the election of 1876.

(WI) **3349 The Constitution of the United States. (3-0)** An intensive study of the origin and development of the Constitution of the United States.

(WI) **3352 Western America. (3-0)** A general examination of the Trans-Mississippi West, its major cultural, economic, political, and social frontiers, and its development as a region and as a national component, from 1803 to the present.

(WI) **3353 The Greater Southwest. (3-0)** A general examination of the region including Texas, California, and the states dominated geographically by the Great Basin, the Southern Rockies, and the Sonoran Desert, from the earliest European contacts to the present.

(WI) **3357 American Diplomatic History. (3-0)** A study of American diplomacy from the period of the Revolution to the present.

(WI) **3359 African American History. (3-0)** A survey of African-American history, 1619 to the present. Emphases include African and European backgrounds, hemispheric slavery, slavery in early America, the antislavery movement, the Civil War and Reconstruction, post-Reconstruction culture and society, and Civil Rights movement.

(WI) **3363 Early American History to 1763. (3-0)** An intensive study of selected topics in the history of the settlement and expansion of British North America, including the development of the social, economic, and political life of the American colonies.

(WI) **3365 The Early American Republic. (3-0)** History of the early national era, 1788-1828, with emphasis on development of the first party system in American politics, the social and economic issues, the expansion of southern slavery, and the western frontier.

(WI) **\*3369 Selected Topics in American History. (3-0)** A study of selected topics in American history. Topics treated and instructors will vary from semester to semester.

(WI) **3370 The Tools and Techniques of Historical Research and Writing. (3-0)** A survey of traditional research methodology and the basic techniques in quantitative historical research.

(WI) **3373 American Women's History. (3-0)** Focuses on women as a force in American history from colonial to modern times, with emphasis on religious, social, and political movements. Women's activities are analyzed within the context of a multicultural, patriarchal society, and the roots of American feminism and the implications for women's future roles in society are explored.

(WI) **\*3375 American Labor History. (3-0)** A topics course covering the history of American labor from the American Revolution to the present.

(WI) **4360 History of the United States, 1945 to 1968. (3-0)** A study of the interplay of economic, social, political, and cultural forces that shaped American society from the end of World War II to the presidential election of 1968.

(WI) **4361 History of the United States, 1968 to the Present. (3-0)** A study of the interplay of economic, social, political and cultural forces that have shaped American society from 1968 to the present.

(WI) **4364 Military History of the United States. (3-0)** A specialized study of the military problems of the United States since 1789 and their impact upon non-military problems.

(WI) **4365 Early American History: The Revolutionary Period, 1763-1789. (3-0)** A history of the American people during the age of the American Revolution, from the beginning of the crisis with Britain to the adoption of the Constitution.

(WI) **4367 Antebellum America. (3-0)** A survey of conflicting American attitudes about the desirability of a strong central government, rapid economic growth, aggressive national expansion, and human slavery in a democratic society.

(WI) **4368 War and Society. (3-0)** A study of the relationship of war with social and cultural institutions from the 18th century to the present. (May be taken for either Group A or Group B credit.)

(WI) **4372 Mexican American History. (3-0)** A survey of the political, economic, and social-cultural role of the Mexican-American in United States from the era of Spanish colonization to the present.

(WI) **4388 Problems in History. (3-0)** This is an independent study course open to advanced students on an individual basis. (May be taken for either Group A or B credit.) Prerequisite: Approval of the Chair of the department.

### **Advanced Courses—Group C**

(WI) **3369% Historical Resources and Practices. (3-0)** An introduction to general historical practice and its application in secondary teaching.

(WI) **3372 Texas History: A Survey. (3-0)** A one-semester survey of Texas History which will emphasize political, economic and social development from prehistory to the twentieth century.

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\*May be repeated for credit with different emphasis with permission of departmental chair.

## **Department of Modern Languages (French, German, Japanese, Russian, Spanish)**

*Chair and Professor-Fischer. Professors-Brister, Champion, Echeverria, Galvan, McCoy, Reeves-Marquardt, Ugalde. Associate Professors-Candau, Forrest, Jaffe, Sconza. Assistant Professors-Heudier, James, Johnson. Instructors-Arriagada, Miles, Moriuchi, Perry, Smith.*

The Department of Modern Languages offers courses in French, German, Japanese, Spanish, and Russian. Instruction focuses on the acquisition of proficiency in the foreign language and on the development of knowledge of the culture, traditions, and literature of the speakers of the foreign language. Majors in French, German, or Spanish complete 18 hours of upper division course work and may simultaneously earn teacher certification.

People proficient in a foreign language have always been in demand in both the public and private sectors. As communication specialists, they bridge the gap between nations and make possible the free interchange of information, ideas, and transactions. Career opportunities abound in such diverse fields as interpretation, international business, international law, foreign affairs, publishing, and teaching.

For further information, call 245-2360 or visit the department in Liberal Arts 317.

### **Language Requirement**

For the BA, a proficiency level of successful completion of French, German, Japanese, Russian, Spanish, or American Sign Language 2310 and 2320 is required. Students with substantial previous language experience may meet their language requirement by completing as few as six hours at the sophomore level. Most students will need to complete the first year of the language (1410 and 1420) before beginning 2310.

Students who have previous language experience are required to take a placement/credit test in that language on the first-class day in any first-semester class (1410).

Students who take the sequence Spanish 1410, 1420, 2310, and 2320 must earn a grade of C or better in each course to advance to the next higher course.

### **Majors and Minors**

Students who major in French, German, or Spanish or who minor in any of these plus Japanese, or Russian should distribute upper division course work in the language equally between junior and senior level courses. Spanish majors must take 3308 as a prerequisite to upper division courses. French and German majors and minors considering a teaching career should take 3310 and 4340. Spanish majors and minors considering a teaching career should take 4340. All teacher candidates must complete Linguistics 4307 prior to student teaching.

Students must have an average of C or better in all lower division courses taken (1410, 1420, 2310, 2320) to be eligible for taking the first upper division course. Language majors must maintain a GPA of at least 2.50 in all upper division language courses.

## **Bachelor of Arts Majors in French, German or Spanish (Minimum required: 128 semester hours)**

### **Notes:**

1. Six upper division courses, for German and French including 3310, 4340, for Spanish including 3308 and 4340, and six hours of upper division literature are required for a major in a modern language. Candidates may complete the major with as few as 18 semester hours, if they are qualified to begin at the junior level. However, a major will normally represent 28 to 32 hours of course work (eight to ten courses).
2. An approved minor, usually in another language, must be completed. A language major who elects to minor in a second language must complete four upper division courses in the second language.
3. Candidates seeking a teaching certificate may choose between two options. Option I requires the completion of 38 hours in a modern language, and Option II requires the completion of 26 hours in a modern language with an additional 24 hours in a second teaching field. Both options require the completion of Linguistics 4307. Students must complete Curriculum and Instruction 3310, 3325, 4332, 4343, Reading 3323, and Education 4681.
4. See section of catalog stating requirements for a Bachelor of Arts degree.
5. May be planned to include a teaching certificate.

<b>Freshman Year</b>	<b>Hours</b>
Communication 1310 .....	3
English 1310, 1320.....	6

General Studies 1100..... 1  
History 1310, 1320 ..... 6

**Mathematics (1315 or higher)                    3**

Modern Language..... 6-8

Philosophy 1305 ..... 3

Phy. Fitness Perspective (2 courses)..... 2

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30-32

**Sophomore Year                                    Hours**

English (Literature)..... 6

Minor ..... 6

Modern Language..... 6

Natural Science Perspective..... 7-8

Political Science 2310, 2320 ..... 6

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31-32

Junior Year	Hours
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Art, Dance, Music, or Theatre 3313 .....	3
Elective .....	3
Minor (or electives) .....	12
BA Science Requirement .....	3
Modern Language .....	9
Social Science Perspective .....	3

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Senior Year	Hours
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Capstone Course .....	3
Electives .....	13
Minor .....	6
Modern Language .....	9

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## Courses in French (FR)

**1410 (FREN 1411) Beginning French I. (4-1)** Introduction to listening, speaking, reading, and writing skills within a French cultural framework. Students who begin French 1410 toward General Studies requirements must also complete 1420.

**1420 (FREN 1412) Beginning French II. (4-1)** Continued practice in listening, speaking, reading, and writing skills within a French cultural framework.

**2310 (FREN 2311) Intermediate French I. (3-0)** Continued development and review of all language skills within a French cultural framework.

**2320 (FREN 2312) Intermediate French II. (3-0)** More advanced practice in all language skills with greater emphasis on reading within a French cultural framework.

**(WI) 3301, (WI) 3302 Survey of French Literature. (3-0)** The first semester will deal with French literature from its beginning through the 18th century; the second from the 19th century to the present.

**3304 Advanced Conversation. (3-0)** A course designed to strengthen oral and aural command of the language.

**3310 French Pronunciation and Intonation. (3-0)** Study and intensive practice of problems in French pronunciation and intonation.

**(WI) \*3370 French Civilization. (3-0)** A survey of the cultural institutions of France designed to provide a background for a better understanding of the French people, encompassing the development of French culture and the forces that have shaped modern France, and contemporary French life and culture. Collateral reading; oral and written reports in French.

**3381 French for Business. (3-0)** A course designed for students interested in business related careers. It will help these students to become familiar with basic French business language necessary for simple, but meaningful, oral and written communication.

**(WI) 4301 The French Novel and Short Story. (3-0)** A course designed to acquaint the student with the development of the novel and short story in French literature.

**(WI) 4340 Advanced Grammar and Composition in French. (3-0)** A course designed to strengthen knowledge of the structure of French and written command of the language.

**\*4390 Studies in French Culture, Language, or Literature. (3-0)** A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduating seniors who have completed at least two advanced courses or graduate students with special needs. Prerequisite: Approval by the Chair of the Department of Modern Languages. Applications must be submitted prior to the registration period each semester.

## Courses in German (GER)

**1410 (GERM 1411) Beginning German I. (4-1)** Introduction to listening, speaking, reading, and writing skills within a German cultural framework. Students who begin German 1410 toward General Studies requirements must also complete 1420.

**1420 (GERM 1412) Beginning German II. (4-1)** Continued practice in listening, speaking, reading, and writing skills within a German cultural framework.

**2310 (GERM 2311) Intermediate German I. (3-0)** Continued development and review of all language skills within a German cultural framework.

**2320 (GERM 2312) Intermediate German II. (3-0)** More advanced practice in all language skills with greater emphasis on reading within a German cultural framework.

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\*May be repeated once for additional credit.

**(WI) 3301, (WI) 3302 Survey of German Literature. (3-0)** The first semester deals with German literature from its beginning through 1750; the second semester from 1750 to the present.

**3310 German Phonetics and Advanced Grammar. (3-0)** Pronunciation exercises and applied German phonetics; writing exercises focusing on problem features of German structure.

(WI) **\*3370 German Civilization. (3-0)** An examination of German culture and life designed to provide a background for a better understanding of Germany and the Germans, encompassing historical survey of the development of German culture, the forces that shaped modern Germany, and a survey of contemporary German life and culture. Collateral readings; oral and written reports in German.

(WI) **4303 Modern German Drama. (3-0)** An introduction to and examination of representative works by major German dramatists embodying lasting concerns and values of interest to contemporary readers.

(WI) **\*4340 Advanced Conversation, Composition, and Stylistics. (3-0)** A course designed to strengthen total command of the language. Collateral readings; oral and written reports in German.

**\*4390 Studies in German Culture, Language, or Literature. (3-0)** A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduating seniors who have completed at least two advanced courses or graduate students with special needs. Prerequisite: Approval by the Chair of the Department of Modern Languages. Applications must be submitted prior to the registration period each semester.

## Courses in Japanese (JAPA)

**1410 (JAPA 1411) Beginning Japanese I. (4-1)** Introduction to listening, speaking, reading, and writing skills within a Japanese cultural framework. Students who take Japanese 1410 toward General Studies requirements must also complete 1420.

**1420 (JAPA 1412) Beginning Japanese II. (4-1)** Continued practice in listening, speaking, reading, and writing skills within a Japanese cultural framework.

**2310 (JAPA 2311) Intermediate Japanese I. (3-0)** Continued development and review of all language skills in a Japanese cultural framework. Prerequisite: Japanese 1410 and 1420 or consent of instructor.

**2320 (JAPA 2312) Intermediate Japanese II. (3-0)** Advanced practice in all language skills in a Japanese cultural framework. Prerequisite: Japanese 2310 or consent of instructor.

**3304 Advanced Conversation and Grammar. (3-0)** A course designed to strengthen oral and written command of the language. Collateral readings and reports in Japanese. May be repeated with different emphasis for additional credit.

## Courses in Russian (RUSS)

**1410 (RUSS 1411) Beginning Russian I. (4-1)** Introduction to listening, speaking, reading, and writing skills with a Russian cultural framework. Students who take Russian 1410 toward General Studies requirements must also complete 1420.

**1420 (RUSS 1412) Beginning Russian II. (4-1)** Continued practice in listening, speaking, reading, and writing skills within a Russian cultural framework.

**2310 (RUSS 2311) Intermediate Russian I. (3-0)** Continued development and review of all language skills within a Russian cultural framework.

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\*May be repeated once for additional credit.

**2320 (RUSS 2312) Intermediate Russian II. (3-0)** More advanced practice in all language skills with greater emphasis on reading within a Russian cultural framework.

**\*3304 Advanced Russian Reading and Writing. (3-0)** Course designed to strengthen reading and writing skills in Russian. Focus will be on using authentic readings from Russian print media. May be repeated with different emphasis for additional credit.

**\*3305 Advanced Russian Listening and Speaking. (3-0)** Course designed to strengthen listening and speaking skills in Russian. Focus will be on using authentic records from Russian broadcast media. May be repeated with different emphasis for additional credit.

## Courses in Spanish (SPAN)

**1410 (SPAN 1411) Beginning Spanish I. (4-1)** Introduction to listening, speaking, reading, and writing skills within a Spanish cultural framework. Students who begin Spanish 1410 toward General Studies requirements must also complete 1420.

**1420 (SPAN 1412) Beginning Spanish II. (4-1)** Continued practice in listening, speaking, reading, and writing skills within a Spanish cultural framework. Prerequisite: a grade of C or better in Spanish 1410.

**2310 (SPAN 2311) Intermediate Spanish I. (3-0)** Continued development and review of all language skills within a Spanish framework. Prerequisite: a grade of C or better in Spanish 1420.

**2320 (SPAN 2312) Intermediate Spanish II. (3-0)** More advanced practice in all language skills with greater emphasis on reading within a Spanish cultural framework. Prerequisite: a grade of C or better in Spanish 2310.

(WI) **3301 Survey of Spanish Literature. (3-0)** Spanish literature from its beginnings through the 18th century. Prerequisite: SPAN 3308.

(WI) **3302 Survey of Spanish Literature. (3-0)** Spanish literature from the 19th century to the present; emphasis on authors and works being the most adequate expressions of the thought and culture patterns of their times and projecting their influence into subsequent periods. Prerequisite: SPAN 3308.

(WI) **3305 Survey of Spanish-American Literature. (3-0)** A study of Spanish-American literature from the colonial period to 1880 and its antecedents in Spain. Prerequisite: SPAN 3308.

(WI) **3306 Survey of Spanish-American Literature. (3-0)** A study of Spanish-American literature from 1880 to the present and its antecedents in Spain. Prerequisite: SPAN 3308.

(WI) **3308 Short Stories and Advanced Composition. (3-0)** A course designed to improve reading and writing skills in Spanish through extensive and intensive reading of Spanish and Spanish American fiction. Prerequisite: SPAN 2320.

**3310 Spanish Phonetics and Phonemics. (3-0)** Articulatory phonetics and sound discrimination and production; phonemic and allophonic variants; geographical and social distribution. Prerequisite: SPAN 3308.

**3311 Business Spanish I. (3-0)** Business language and cultural basics and strengthening of oral and written Spanish. Prerequisites: SPAN: 3308.

**3312 Business Spanish II. (3-0)** Commercial Spanish terminology, strengthening written Spanish for correspondence and documentation, and oral Spanish for transcultural business situations. Prerequisites: SPAN: 3308.

(WI) **3370 Spanish Civilization. (3-0)** A survey of the cultural institutions of Spain designated to provide a background for a better understanding of the Spanish people. Collateral readings; oral and written reports in Spanish. Prerequisite: SPAN 3308.

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\*May be repeated once for additional credit.

(WI) **3371 Spanish-American Civilization. (3-0)** Lectures and extensive readings of the cultural institutions of the peoples of Spanish-America and the Mexican-Americans of the United States geared to provide a background for a better understanding of both groups and their literature. Prerequisite: 3308.

(WI) **4302 The Spanish Novel. (3-0)** A study of the outstanding novels of Spain with emphasis on the 19th and 20th centuries. Prerequisite: SPAN 3308.

(WI) **4330 The Spanish-American Novel. (3-0)** The most representative novels in the literary history of Spanish-America. Prerequisite: SPAN 3308.

(WI) **4340 Advanced Spanish Grammar and Stylistics. (3-0)** Major emphasis is placed on syntax, usage and grammatical nomenclature. Attention is also focused on technical neologisms. Prerequisite: SPAN: 3308.

**4350 Latin American Novel and Film. (3-0)** Comparative study of the relationships between literary texts and their cinematographic counterparts in Latin American novels and their film adaptations. Prerequisite: SPAN 3308.

(WI) **4361 Masterpieces of Hispanic Poetry. (3-0)** Selected studies in Spanish and Latin American poetry, with attention to critical analysis of texts. Prerequisite: SPAN 3308.

(WI) **4362 Masterpieces of Hispanic Drama. (3-0)** Selected studies in Spanish and Latin American drama, with attention to critical analysis of texts. Prerequisite: SPAN 3308.

**4370 Hispanic Literature of the Southwest: Space and Images. (3-0)** The study of the Hispanic literature of the Southwest in order to have a better understanding of the cultural diversity of the region. Prerequisite: SPAN 3308.

\*(WI) **4380 Topics in Hispanic Literature. (3-0)** Topics vary and include the study of specific genres, periods, authors, and ethnic and women's contributions to Hispanic literature. Prerequisite: SPAN 3308.

**\*\*4390 Studies in Spanish Culture, Language, or Literature. (3-0)** A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduating seniors who have completed at least two advanced courses or graduate students with special needs. Prerequisites: Approval by the Chair of the Department of Modern Languages: Applications must be submitted prior to the registration period each semester. Prerequisite: SPAN 3308.

## **Courses in Applied Linguistics and Language Learning (LING)**

**4307 Foreign Language Acquisition. (3-0)** An introduction to the nature of language development and to the theories that describe foreign language acquisition and development.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Catalog.**

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\*May be repeated for additional credit.

\*\*May be repeated once for additional credit.



## Department of Philosophy

*Chair and Professor-Luizzi. Professors-G. Fulmer, Gordon, Geuras, Joy, Kalsi. Associate Professor-Hutcheson. Assistant Professors-Carson, McKinney. Lecturer-Dyal. Instructors-C. Fulmer, Garcia, Ross-Fountain, Zhu.*

Philosophy raises some of the most fundamental questions about our world and ourselves-questions about the nature of reality, knowledge, morality, God, and society. Students of philosophy study the thinking of major philosophers on such matters and learn to think critically and clearly on their own.

Since philosophy is the home of the study of logic and the principles of good argumentation, it lends itself well to being joined with virtually any course of study. Some philosophy majors pursue careers in business, journalism, law, medicine, and education. In these cases students recognize that the successful practitioner is the good thinker and turn to philosophy to develop their critical and creative powers. Other majors develop an interest in becoming professional philosophers and enroll in some of the nation's best graduate programs in philosophy.

For further information, call 245-2285 or visit the department in LA 357.

### Bachelor of Arts Major in Philosophy (Minimum required: 128 semester hours)

#### Notes:

1. A major requires 30 semester hours, including 18 semester hours of advanced courses.
2. Majors must take philosophy 2311, 2312, and 2330.
3. A minor requires any 18 semester hours of philosophy, including 12 semester hours of advanced courses.

<b>Freshman Year</b>	<b>Hours</b>
Communication 1310 .....	3
Elective .....	3
English 1310, 1320 .....	6
General Studies 1100 .....	1
History 1310, 1320 .....	6
Natural Science Perspective .....	7-8
Philosophy 1305, 2330 .....	6
Phy. Fitness Perspective (2 courses) .....	2

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<b>Sophomore Year</b>	<b>Hours</b>
English (Literature) .....	6
Mathematics (1315 or above) .....	3
Minor .....	3
Modern Language .....	8
Philosophy 2311, 2312 .....	6
Political Science 2310, 2320 .....	6

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<b>Junior Year</b>	<b>Hours</b>
Philosophy, advanced .....	9
Art, Dance, Music, or Theatre 3313 .....	3
Electives .....	3
BA Science Requirement .....	3
Minor .....	6
Modern Language .....	6
Social Science Perspective .....	3

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<b>Senior Year</b>	<b>Hours</b>
Capstone Course (selected from approved advanced Philosophy courses) .....	3
Philosophy, advanced .....	6

Electives .....	12-15
Minor .....	6-12

## Minor in Religious Studies

The minor in Religious Studies is an interdisciplinary minor requiring 18 hours of course work. Students may select among the following courses, some of which have prerequisites\*, to build their minor: Anthropology 3305 (Magic, Ritual, and Religion), Anthropology 3332 (Myths and Mound Builders), ArtH 2302 (Ancient/Medieval Art History), English 3329 (Mythology and Folklore), History 4318 (History of Christianity), Philosophy 3317 (Science and Religion), Philosophy 3318\* (Reason, God, and Nature), Philosophy 3319\* (Major Western Religious Systems of Thought), Philosophy 4388\* (Problems in Philosophy offered as Early Christian Philosophy), Political Science 3306 (Religion and American Public Life), Political Science 4313 (Islamic Law and Politics), Religion 2320 (Life and Teachings of Jesus), Religion 3360 (Comparative Religions), and Religion 3365 (The Christian Faith).

## Minor in Value Studies

This minor allows a student with special interests in moral value theory to pursue a course of study which culminates in an independent research project in value studies. The minor is comprised of 18 hours of course work, six hours of which are lower division and which include Philosophy 1305 (General Philosophy) and Philosophy 1330 (Reasoning and Analysis) or Philosophy 2330 (Elementary Logic). Students satisfy the remaining 12 hours by taking the following upper division courses: Philosophy 3320 (Ethics), Philosophy 3321 (Contemporary Moral Problems), Philosophy 3322 (Business and Professional Ethics), and Philosophy 4388 (Problems in Philosophy).

## Courses in Philosophy (PHIL)

**1330 Reasoning and Analysis. (3-0)** Study of informal fallacies, valid argument forms, problem solving strategies, language clarification, and application of analytic skills.

(WI) **1305 (PHIL 1301) General Philosophy. (3-0)** A study of universal philosophical problems and their solutions with a view toward developing clear thinking about knowledge, belief, and value. Approximately one half of this course will focus on the student's critical thinking skills. Credit cannot be given for both 1305 and 3301.

(WI) **2311 (PHIL 2316) History of Philosophy Before 1600. (3-0)** Early Greek, Roman, and medieval systems of thought.

(WI) **2312 (PHIL 2317) History of Philosophy Since 1600. (3-0)** Modern philosophical thought through the 19th century.

**2330 (PHIL 2303) Elementary Logic. (3-0)** A study of the nature and forms of correct reasoning, both deductive and inductive.

(WI) **3301 Philosophical Issues. (3-0)** The great philosophical concepts which through the years have challenged the best thoughts of people and have contributed to the fulfillment of the good life. Emphasis upon the applicability of those concepts to human life in our time and to the development of intellectual perspective. Approximately one half of this course will focus on the student's critical thinking skills. Credit cannot be given for both 3301 and 1305.

(WI) **3314 American Philosophy. (3-0)** Examination of contributions of Americans to perennial philosophical issues.

(WI) **3315 Contemporary Philosophy. (3-0)** Selected readings in late 19th century and 20th century philosophy: existentialism, positivism, also analytic philosophy, phenomenology, and pragmatism. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor.

(WI) **3316 Existentialism and Phenomenology. (3-0)** A study of the nature of human experience and existence in the philosophies of Kierkegaard, Nietzsche, Husserl, Heidegger, Sartre, Merleau-Ponty, and Camus. Topics will include freedom, dread, emotion, death, other minds, faith, and the past as experienced by the individual. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor.

(WI) **3317 Science and Religion. (3-0)** An examination of the nature of scope of science and scientific method as well as nature of religion. An exploration of the relationship between religion and science and a study of the effects they have had on each other.

(WI) **3318 Reason, God and Nature. (3-0)** An analysis of the concept of God, terms predicated on God, and theological propositions. An attempt to determine the nature of religious utterances in comparison with those of everyday life, scientific discovery, morality, and imaginative expression. Prerequisite: Three hours of lower division philosophy, 3301, or consent of the instructor. (Capstone)

(WI) **3319 Major Western Religious Systems of Thought. (3-0)** A study of the basic tenets of Judaism and Christianity, an examination of their major doctrinal differences, and a critical analysis of some of the perennial problems central to each. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor. (Capstone)

(WI) **3320 Ethics. (3-0)** A study of classical and contemporary philosophical inquiries into our knowledge of the "good" and the grounds of moral obligation. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor. (Capstone)

(WI) **3321 Contemporary Moral Problems.\* (3-0)** Exploration of philosophical dimensions of such contemporary moral problems as abortion, euthanasia, poverty, animal rights, nuclear war, and privacy in a computer age. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor. (Capstone)

(WI) **3322 Business and Professional Ethics. (3-0)** Study of major topics in business and professional ethics, including what a profession is, whether it differs from business, and what is involved with the moral education, social responsibilities, and ethical standards of professionals and business people. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor. (Capstone)

(WI) **3323 Environmental Ethics. (3-0)** Study of ethical issues associated with the environment including nature, use, preservation, and restoration of the environment.

(WI) **3324 Meaning of Life. (3-0)** Investigation of major theories of the meaning of life in Western and Eastern philosophies.

(WI) **3331 Philosophy of Law. (3-0)** The major theses which have been set forth in the history of jurisprudence including foundations of law, natural law, legal positivism, and the judicial process. (Capstone)

(WI) **3332 Social and Political Philosophy. (3-0)** Critical examination of major theories concerning the organization of societies and governments. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor.(Capstone)

(WI) **3333 Feminist Theory. (3-0)** This course will examine major feminist theories including liberal feminism, Marxist feminism, radical feminism, and post-modernist feminism with an eye especially to revealing the complexity and diversity of contemporary feminist thought. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, WS 3376 or 3376, or permission of the instructor.

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\*May be repeated for additional credit.

**3340 Symbolic Logic. (3-0)** A study of the logic of propositions through prepositional calculi, formal proofs, and first-order functional calculi. Also included is an investigation into the axiomatic method as used in logic and mathematics, including the concepts of completeness and consistency. Prerequisite: Philosophy 2330, or Mathematics 2372, or consent of instructor.

(WI) **3350B Philosophy in Its Relation to Other Disciplines. (3-0)** The course will be offered under the following sub-title: B., Philosophy and Literature. The course is intended to explain the relation between philosophy and literature. Prerequisite: Three semester hours of lower division philosophy, Philosophy 3301, or consent of the instructor. (Capstone)

(WI) **4350 Philosophy of the Arts. (3-0)** A critical and historical analysis of the nature of aesthetic experience and creative genius. Prerequisite: three hours of lower division philosophy, Philosophy 3301, or consent of the instructor. (Capstone)

(WI) **4351 Philosophy of Education. (3-0)** Study of major philosophical theories on nature, value, and purpose of education.

(WI) **4355 Philosophical Theory of Science. (3-0)** A study of the major theories concerning the nature and value of science and the scientific method. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor. (Capstone)

(WI) **4356 Philosophical Theory of Knowledge. (3-0)** A study of the major theories concerning knowledge, belief, certainty, and perception. Topics covered will include empiricism, rationalism, realism, and idealism. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor.

(WI) **4370 Metaphysics. (3-0)** Systematic study of metaphysical problems by examination of classical and modern texts. Topics considered will involve being and unity, mind and matter, God, causation and necessity, free will and determinism. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor.

**4388 Problems in Philosophy\*. (3-0)** Independent study of specific problems in philosophy. Open to students on an individual or small group basis by arrangement with the Department of Philosophy. Problem area, bibliography, and study paper outline are to be approved by the instructor. Prerequisite: Three hours of lower division philosophy, Philosophy 3301, or consent of the instructor.

## Courses in Religion (REL)

**2310 Survey of the Old Testament. (3-0)** A critical, historical, and interpretive study of the literature of Israel, covering the entire Old Testament.

**2315 Survey of the New Testament. (3-0)** A study of the New Testament, including the historical background, the life of Christ, the spread of Christianity, and the letters of Paul.

**2320 The Life and Teaching of Jesus. (3-0)** A critical analysis of the four Gospels, which provide the only records of the work and words of Jesus.

**3360 Comparative Religions. (3-0)** An interpretation of the fundamental insights, concepts, ideals, and customs of the major living religions of the world.

**3365 The Christian Faith. (3-0)** A systematic study of the major doctrines of Christianity-God, Christ, Man, Sin, Salvation, Faith, Evil, Eternal Life, and others.

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\*May be repeated for additional credit.

## Department of Political Science

*Chair and Professor-Opheim. Professors-Balanoff, Cardenas, Jr., Gorman, Kens, Shields, Stouffer, Sullivan, Weinberger. Associate Professors-Brittain, DeSoto, Garofalo, Grasso, Hardin, Hindson, Hofer, Leder. Assistant Professors-Burns, Hull, Mihalkanin, Robertson, Rodriguez, Wright. Lecturers-Chapman, Parent, Tajalli.*

Political science is the study of government-the most important decision-making part of society-and of the social, economic, and other institutions and practices that influence this decision-making process. On the one hand, it is a discipline that can trace its roots to the ancient Greek political community, the polis; but it is also a modern social science which uses techniques such as content analysis, public opinion surveys, and statistical analysis to create and evaluate generalizations about how government and people behave.

As a liberal arts discipline, the department is dedicated to developing analytical skills and promoting critical thinking. Students are encouraged to reflect not simply on their career goals, but also on what type of persons they want to become, and on their rights and duties as citizens. The department offers students the opportunity to earn up to six credit hours in an internship program in which students gain practical experience by working for various federal, state, local or non-profit community agencies.

Political science prepares students for careers in various fields, not only in government, law, and education but also in business, journalism, urban planning, and many fields on which public policies have a significant effect.

For further information, call 245-2143 or visit the department in LA 266.

## Major in Political Science

All political science majors must take a minimum of 30 hours in political science, including three hours selected from Political Science 1308 or 1309. Political Science 1308 or 1309 each serves as the prerequisite course for all advanced courses in political science. For BA political science majors, this minimum must include the required senior seminar (Political Science 4399). Prerequisites for Political Science 4398 and 4399 are at least 21 hours of Political Science.

Political Science majors must take at least one advanced course in four of the five groups listed below.

- I. Political Theory and Methodology
- II. American Government
- III. Public Law and Public Administration
- IV. Comparative Politics
- V. International Relations

**Public Administration.** The Political Science major with a concentration in public administration requires 36 semester hours of political science. Students choosing this concentration are required to take the following courses, making sure they meet the other requirements for the BA degree.

1. Political Science 1309, 2310, 3314 or 3319, 3316, 3318, 3320, 3328, 3377, 4322, 4357, 4361, and 4380.
2. Political Science majors with this concentration will determine their minor in consultation with their advisor.

## Minor in Political Science

Minors must take a total of 24 hours, including Political Science 1308 or 1309, and at least one advanced course in four of the five groups of courses listed above.

## Minor in Political Communication

Minors take a total of 12 hours of Political Science and 12 hours of Speech Communication. This minor is administered by the Department of Speech Communication in the School of Fine Arts and Communication. See p. 243 for more information.

## Bachelor of Arts Major in Political Science (Minimum required: 128-131 semester hours)

### Notes:

1. The political science major requires 30 semester hours; the minor, 24 hours.
2. Political science majors are required to take 12 semester hours of History, Economics 2310 and 2320 and any three hours from the following courses: Anthropology 1312 or 3301, Geography 1310, Psychology 1300, Sociology 1310 or 3300.
3. A teaching certificate is available with this degree plan. The certificate requires the 18 hours of education courses and Reading 3323.
4. See section of catalog stating requirements for a BA degree.
5. Students must complete at least 18 advanced hours in Political Science.

<b>Freshman Year</b>	<b>Hours</b>
Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics 1315 or higher .....	3
Modern Languages 1410, 1420 .....	8
Phy. Fitness Perspective (2 courses).....	2
Political Science 1308 or 1309 .....	3

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<b>Sophomore Year</b>	<b>Hours</b>
English (Literature**).....	6

History 2310, 2320 .....	6
Modern Language 2310, 2320 .....	6
Natural Science Perspective.....	7-8
Political Science 2310, 2320	
(or one course from Group II) .....	***6

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<b>Junior Year</b>	<b>Hours</b>
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Anthropology 1312 or 3301, Geography 1310, Psychology 1300, or Sociology 1310 or 3300 .....	3
Art, Dance, Music, or Theatre 3313 .....	3
Economics 2310, 2320 .....	6

<b>Minor</b>	<b>3-6</b>
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Philosophy 1305 .....	3
Political Science, advanced .....	6-9
Electives .....	9

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<b>Senior Year</b>	<b>Hours</b>
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Political Science, advanced .....	9-12
Minor and/or elective.....	15-17
Political Science 4399	
Capstone Course.....	3
BA Science Requirement.....	3

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\*18 hours must be selected from writing intensive (WI) courses.

\*\*See literary perspective courses in General Studies section of this catalog.

\*\*\*Students who take a course from Group II to satisfy the POSI 2320 requirement are recommended to take POSI 2323.

**Bachelor of Arts  
Major in Political Science  
(Minimum required: 132 semester hours  
with teaching certification)**

**Note:**

The Political Science major with teaching certification consists of 30-33 semester hours, with an additional 18 semester hours of Education courses and Reading 3323. A second teaching field is optional. If political science is selected as a single teaching field, a minimum of 36 hours is required in the major.

<b>Freshman Year</b>	<b>Hours</b>
Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320.....	6
Mathematics 1315 or higher .....	3
Modern Languages 1410, 1420 .....	8
Phy. Fitness Perspective (2 courses).....	2
Political Science 1308 or 1309.....	3

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<b>Sophomore Year</b>	<b>Hours</b>
English (Literature**) .....	6
History 2310, 2320 .....	6
Modern Language 2310, 2320.....	6
Natural Science Perspective.....	7-8
Political Science 2310, 2320 (or one course from Group II) .....	***6

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<b>Junior Year</b>	<b>Hours</b>
Anthropology 1312 or 3301, Geography 1310, Psychology 1300, Sociology 1310 or 3300 .....	3
Art, Dance, Music, or Theatre 3313 .....	3
Curriculum and Instruction 3310, 3325, 4332.....	9
Economics 2310, 2320 .....	6
Secondary Teaching Field .....	3-6
Philosophy 1305 .....	3
Political Science, advanced. ....	6-9

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<b>Senior Year</b>	<b>Hours</b>
Curriculum and Instruction 4343.....	3
Education 4681 .....	6
Political Science, advanced .....	9-12
Political Science 4398 (Capstone Course) .....	3

<b>Reading 3323</b>	<b>3</b>
Second Teaching Field .....	9-12

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\*18 hours must be selected from writing intensive (WI) courses.

\*\*See literary perspective courses in General Studies section of this catalog.

\*\*\*Students who take a course from Group II to satisfy the POSI 2320 requirement are recommended to take POSI 2323.

## Courses in Political Science (POSI)

### Lower Level Courses

(WI) **1308 Basic Political Ideas. (3-0)** Introduction to the fundamental ideas of the Western political tradition including conservatism, liberalism, socialism, democracy, and totalitarianism. These may include some portion or all of certain politically significant works of such political thinkers as Thucydides, Plato, Aristotle, Machiavelli, Edmund Burke, and others. This course (or 1309) is required of all majors and minors in Political Science, and it serves as a prerequisite for advanced courses in Political Science.

(WI) **1309 (GOVT 2304) Introduction to Political Science. (3-0)** An introduction to the study of political institutions emphasizing the fundamentals of political science research and analysis, the tools used by social scientists in bibliographical research, and basic methods of locating and presenting data for comparing political institutions. This course (or 1308) is required of all majors and minors in political science. It is especially recommended for students concentrating in Government Administration and Planning and serves as a prerequisite for advanced courses in the department.

**2310 (GOVT 2301) Principles of American Government. (3-0)** A survey of the principles of political science, of the American system of government, and of the origins and development of the constitutions of the United States and Texas. Satisfies the legislative requirements for teacher certification.

**2320 (GOVT 2302) Functions of American Government. (3-0)** A study of functions performed in the American system of government, both national and state, with special reference to Texas. Prerequisite: Political Science 2310 or equivalent.

**2323 Introduction to International Studies. (3-0)** Required of all majors and minors in International Studies. This “core seminar” identifies critical interdisciplinary questions which will be examined in all courses in the International Studies Program.

### Group I-Political Theory and Methodology

(WI) **3331 American Political Theory. (3-0)** The development of American political ideas from the colonial period to the present.

(WI) **3332 Ancient and Medieval Political Thought (Greeks to 1600). (3-0)** A study of the masters of classical and medieval political theory from Plato to Machiavelli.

(WI) **3333 Modern Political Theory (1600-1900). (3-0)** The development of modern political ideas; the meaning and relationships of the significant ideologies of our time; democracy, capitalism, the welfare state, socialism, fascism, and totalitarian communism.

**3334 Contemporary Political Theory. (3-0)** A study of selected theories, ideologies, and movements in 20th century political theory.

**3377 Analytical Techniques. (3-0)** An examination of basic scientific methods, to include problems of definition, concept formation, hypothesis testing, explanation and prediction, and theory construction. Course will discuss elementary descriptive statistics, statistical inference, and correlation and regression analysis as applied to problems in political science/public administration. Prerequisites: Political Science 1309 and 2310.

(WI) **4335 Politics and Personality. (3-0)** An introduction to the relationship between political behavior and human motivation. Topics include psychological perspectives and political theory; personality and political orientation; the political personality, and the politically relevant insights into these areas offered by fiction.

### Group II-American Government

**3305 The American Founding. (3-0)** An examination of the origins, nature, and foundations of the American Constitutional system with special emphasis on the Federalist/Anti-federalist debates and the writing of the constitution.

**3306 Religion and American Public Life. (3-0)** An examination of the ways in which religious beliefs and groups have influenced the course of American democratic experience; and the on going debates in constitutional law and democratic theory regarding the proper role of religion in American public life.

(WI) **3307 Parties and Party Politics. (3-0)** The American political system, including its history and organization, suffrage, nominations and elections, campaigns, and the related areas of public opinion and pressure group activities.

(WI) **3308 Congress and the Legislative Process. (3-0)** The dynamics of lawmaking and legislative politics in the United States. The structure, party organization, rules of procedure, and actual operation of the Congress and of selected state legislatures (including Texas) are analyzed, compared, and evaluated.

(WI) **3309 The American Presidency. (3-0)** A comprehensive examination of both the presidency and the men who have held it.

(WI) **3314 State and Local Government. (3-0)** A study of the organization, functions, and powers of state, county, and municipal government in the United States with particular reference to patterns of such governments in Texas.

(WI) **3319 Metropolitan Politics. (3-0)** An examination of the political institutions and processes of urban and suburban America, including such topics as urban sprawl, reform movements, ethnic politics, and city-county consolidation.

(WI) **3395 Ethnicity and Nation Building. (3-0)** This course serves as an introduction to the politics of ethnic and gender issues and organizations and introduces the student to basic concepts involved in dealing with the diversity that is the American nation.

**4301 Politics in Film. (3-0)** This course will expose the students to films which explicitly address political issues such as racism in the United States, the conflict between public duty and private conscience, and politics and media manipulation, and the role of perception in all the actions people take.



(WI) **4320 Issues and Interest Groups: Power and Pressure in America. (3-0)** An examination of selected issues at the state and national level and the interest groups which attempt to influence governmental decisions about them. The goal of the course is to promote a better understanding of the process of government and an informed opinion on the question, "Is there a Public Interest?" Prerequisite: Political Science 2310.

(WI) **4330 Women in Politics. (3-0)** A study of the role of women in political life. The course will examine women's influence on politics as well as how various public policies affect women. Topics may include feminism, electoral politics, political representation, and the internal politics of women's groups.

(WI) **\*4331 Minority Politics. (3-0)** This course examines and analyzes the political participation of American minorities (Blacks, Hispanics, women, and other minorities) in the American political system and the impact of various public policies on minority groups. The course will emphasize the following topics: electoral participation; public policy participation, representation and implementation; protest politics; and political behavior. Some reference will be to Texas and the Southwest.

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\*May be repeated once with different subject matter and instructor.

(WI) **4345 American Foreign Policy. (3-0)** This course focuses on how foreign policy is made. The major institutions involved in the decision-making process as well as the ideological setting in which they function are examined. Topics studied include the foreign policy roles of Congress, Interest Groups, the State Department and the Secretary of State, the Military Establishment, the Intelligence Community, the Presidency, and Public Opinion. Specific foreign policy decisions will be examined to illustrate the various roles of these institutions in the decision-making process.

**\*\*4362 Government and American Business. (3-0)** An overview of the relationship of American business to public policy as a whole. Focus is on several factors affecting the relationship between the public and private sectors including political ideology and culture, pluralism, political party development, political business cycles, monetary policy, and the domestic economy and political accountability.

### **Group III-Public Law and Public Administration**

**3310 Constitutional Law: Basic Structures and Principles. (3-0)** A case study approach to an analysis of fundamental principles of governmental structure with an emphasis on the office and powers of the President and inter-governmental relationships in the main body (Articles I through VII) of the U.S. Constitution.

**3311 Constitutional Law: Individual Liberties. (3-0)** An examination of that area of Constitutional interpretation commonly known as Civil Liberties or the relations between the individual and the government. (May be used to satisfy Group II requirements.)

**3312 Constitutional Law: Civil Rights. (3-0)** A thorough and rigorous analysis of the development of Civil Rights in the United States including Congressional statutes, constitutional amendments, and decisions of the Supreme Court. (May be used to satisfy Group II requirements.)

(WI) **3316 Introduction to Public Policy Analysis. (3-0)** The organization and management of the machinery for executing public policies, with particular emphasis upon the Federal bureaucracy.

(WI) **3318 Public Personnel Administration. (3-0)** A study of public personnel systems in the United States with major concentrations on the national civil service system. Special emphasis is given to current research in the areas of leadership, informal organization, motivation, and small group theory.

(WI) **3320 Comparative Public Administration. (3-0)** A survey of the field of Public Administration that will emphasize those aspects of administration that are common to all administrative systems. (May be used to satisfy Group IV requirements.)

(WI) **3328 Public Finance Administration. (3-0)** This course focuses on the planning, organization, and implementation of budgeting at all levels of government. It includes an examination of the fundamentals of budgeting, fund accounting, auditing, and debt management in the public sector. In addition, it will cover taxation and tax administration. Prerequisites: Political Science 1309 and 2310.

**4302 Legal Theories and Research. (3-0)** This course examines the American Legal System at both the state and federal levels involving civil and criminal procedure. Emphasis is on the process of these systems and the framework within which disputes are resolved. Students will become familiar with legal research methods so as to better understand the composition of legal options.

**4303 Civil Law in American Society. (3-0)** This course considers the structure and functions of government together with the law regulating private social relations, i.e., contract law, property law, tort law, and the causal relations between legal policies and societal goals and regulations.

**4304 Issues in Law and Public Policy. (3-0)** This course examines contemporary legal issues by focusing on their relationship to public policy. Selected topics will vary, i.e., AIDS, abortion, affirmative action/reverse discrimination, capital punishment, environmental protection, euthanasia, and surrogate motherhood. In connection with these controversial issues we will address: (1) alternative views; (2) social consequences; and, (3) political responses to and legal issues resulting from alternative positions.

(WI) **4311 The Supreme Court and the Judicial Process. (3-0)** An intensive examination of the judiciary, focusing upon the politics of judicial selection and the decision-making process of the judiciary as well as the position of the judiciary in the entire political process. Prerequisite: Political Science 3310 or 3311, or equivalent.

(WI) **4322 Public Policy Formulation. (3-0)** Intensive analysis of theories and processes of both policy formation and policy enforcement in the American administrative system, emphasizing the regulatory function. Prerequisite: Political Science 1309 and 2310.

(WI) **4361 Administrative Law. (3-0)** Course stresses the legal principles and practical doctrines involved in the work of administrative tribunals vested with quasi-legislative or quasi-judicial powers or both. Primary focus on development, practice, and procedures of federal administrative agencies.

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**\*\*May be repeated once with different emphasis.**

## **Group IV-Comparative Government**

(WI) **4313 Islamic Law and Politics. (3-0)** This course is a study of the law, origins, development, divisions, and politics of Islam. Special emphasis will be given to law, political thought, history, and the culture of the Middle East. Topics covered include Muslim law and political institutions, the Arab and Persian roles in Islam; the Islamic Community as a political system; major points of the Islamic faith and their political significance and the political and historical significance of Muslim mysticism. (This course may be used to satisfy Group I requirements.)

(WI) **4314 Middle East Revolution and Nationalism. (3-0)** The focus of this course is revolution and nationalism in the modern Middle East with a special emphasis on the Persian, Egyptian, and Turkish experiences. These three cases are studied in the light of general theoretical literature on revolution and nationalism. Additional attention is given to political developments after the revolutionary periods. In each case in relation to theoretical literature on "traditional," "modernizing autocracy," "mobilization," and "conventional" political systems.

(WI) **4338 Government and Politics of Latin America. (3.0)** A comparative analysis of political systems in Latin America, examining the impact of sociocultural and economic factors on political attitudes and behaviors. Special emphasis on Mexico, Cuba, and Brazil.

(WI) **4340 Government and Politics of Western Europe. (3-0)** An in-depth analysis of the political systems of the countries of Western Europe with special emphasis on Great Britain, France, Italy, and West Germany.

(WI) **4341 Government and Politics of Russia. (3-0)** A comprehensive study of the domestic and foreign policy of the former Soviet Union, examined both historically and analytically.

**4349 Topics in Comparative Politics. (3-0)** Topics in Comparative Politics will address political concepts in specific countries or areas of the world in a comparative context. The course will examine how political ideas and culture, governmental institutions, political parties, interest groups, and external influences affect the area studies.

(WI) **4350 Government and Politics of Asia. (3-0)** A critical analysis of political development in the nations of Far East and South Asia, concentrating on China, Japan, and India.

(WI) **4351 African Politics. (3-0)** A comprehensive examination of politics in Africa.

**4372 Government and Politics of Central and Eastern Europe. (3-0)** An historical and comparative examination of the states of Central and Eastern Europe emphasizing the changing nature of these states as well as their political and economic systems.

## **Group V-International Relations**

(WI) **4315 The Arab-Israeli Conflict. (3-0)** A study of the origins, development, and ramifications of the conflict between Israel and its opponents-the Palestinians and the Arab states of the Middle East. Special emphasis on the history and development of Zionism and Palestinian nationalism. Additional topics covered include: American and Soviet relations with Israel, the Arab states, and the Palestinians, the role of "diaspora Jews," and the Jewish and Muslim or religious dimensions of the conflict.

(WI) **4326 Issues in World Politics. (3-0)** This course is designed to acquaint the student with major issues in world politics and major concepts in international relations and comparative politics.

(WI) **4327 Theories of International Politics. (3-0)** This course focuses on theories and concepts in the study of international relations. Major theoretical works and illustrative case studies will be critically examined.

(WI) **4356 International Law. (3-0)** This course will examine the nature, sources, and development of international law as both a legal and political process. Areas to be studied include: The law of treaties, acquisition of personality, territorial jurisdiction, the law of the sea, land and air, diplomatic immunities, nationality, state responsibility, human rights, and the law of war. Students will do research on contemporary international problems and participate in a Moot International Court of Justice (ICJ) proceeding. (May be used to satisfy Group III requirements.)

(WI) **4357 International Organization. (3-0)** This course will examine the historical roots of international organizations, the development of the League of Nations, and the evolution of the United Nations System. The nature, process, and function of contemporary international organization will be analyzed. The role of non-governmental organizations, transnational organizations, and multi-national corporations will be assessed. The course will include a mix of lecture, discussion, and model sessions.

(WI) **4358 United States-Latin American Relations. (3-0)** Examinations of general policies, problems, and attitudes, together with detailed analysis of United States relations with selected countries.

(WI) **4359 Politics of International Economic Relations. (3-0)** This course examines the institutional structure of interstate economic relations, trade and monetary regimes, foreign investment, foreign aid and development policies of governments.

## **General Upper Level Courses**

The following courses may be used to satisfy a requirement in any of the preceding groups, if specified on the degree outline.

(WI) **\*4379 Independent Study. (3-0)** Independent reading and/or research on various problem areas of political science. Specific problem area, bibliography, and study paper outline will be approved by instructor.

**\*\*4380 Internship in Government. (3-0)** The student will participate in the ongoing work of a selected governmental unit. A research paper dealing with the internship experience written under the direction of a faculty member will be required. This course may be repeated one time for additional internship credit.

**4680 Internship in Government. (6-0)** The student will participate full time (40 hours per week) in the ongoing work of selected governmental units. A research paper dealing with the internship experience written under direction of a faculty member will be required.

(WI) **4398 Practicum in Political Science: Concepts, Resources, and Applications in the Study of Politics. (3-0)** This course is designed to assure familiarity with the basic concepts and approaches used in the study of politics. Students will learn to identify, locate, and employ resources to assist in understanding politics at local, state, national, and international levels. Model Congress or U.N., visits to local government offices and councils, moot court, critiques of political propaganda films, and simulations in international relations are some of the applied methods of studying politics which students will learn. This course is required of all B.A. with a teaching certificate in Political Science majors and may be taken as an elective by all other students.

(WI) **4399 Senior Seminar in Political Science. (3-0)** A seminar devoted to intensive reading, research, writing, and discussion which focuses on different sub-fields in the discipline of Political Science taught by appropriate faculty. Students in consultation with faculty in their area of interest should select a particular sub-field seminar in accordance with their needs and professional objectives. These seminars are required of all B.A. Political Science majors and must be taken in the student's junior or senior year of undergraduate study. Other interested students may take the course with the consent of the Department Chair and the individual instructor. Course may be repeated with different instructor and approval of Department Chair. Prerequisites for the Senior Seminar are all of the core courses in Political Science or approval of the Department Chair.

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\*May be repeated once with different subject matter and instructor. No more than six semester hours credit in meeting degree requirements.

\*\*May be repeated once.

## Recognition of Student Scholarship

The Annual Professor Henderson Award: The Department of Political Science annually presents the Professor Henderson Award to the graduating Political Science major with the highest overall grade point average (the awardee may be either a December or May graduate of the current academic year). The award has the purpose of recognizing and honoring a student of Political Science who has, as a student at SWT, displayed academic excellence and character in the tradition and values cherished and exhibited by Richard B. Henderson, Professor Emeritus.

The Howard M. "Prof" Greene Award: This award honors an academic mentor in politics to Lyndon B. Johnson and thousands of other SWT alumni and goes to one or more graduating Political Science majors who have earned overall grade point averages of 3.9 or above.

Interested students who believe they may be eligible for these awards should consult with the Department Chair.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Bulletin.**

## Department of Psychology

*Chair and Professor-Ogletree. Professors-Archer, Davis, Fling, Ginsburg, Smallwood, Stimmel, Wheeler, Wright. Associate Professors-Czyzewska, Frost, Kerkman, Mendez, Merryman, Raffeld, Snodgrass. Assistant Professors-Hulse, Pinon. Lecturers-Carpenter, Dailey, Fahringer, Friedman, Rogers.*

Psychology is the science that studies how individual people and animals behave. To psychologists, behavior means not only actions, but also thoughts and feelings. Beyond its introductory course, the department offers classes in individual differences, biological, social, and learned bases of behavior. Psychology majors take courses in these areas and in methodology. Later they may participate in advanced theory, individual research, and practicum classes to prepare for graduate schools in psychology.

To become a psychologist in clinical or industrial psychology requires a graduate degree beyond the bachelor's level. Many psychology majors, however, plan to enter jobs in business, government, health, and education immediately, with a BA or BS in Psychology. Industrial and abnormal psychology are also popular choices among students preparing for jobs and professions requiring interaction skills.

For further information, call 245-2526 or visit the department in the Psychology Building, room 208.

## Entry into the Major in Psychology

Students who meet university admissions requirements enter Psychology as pre-majors. However, admission to the major itself and to the Psychology 3301 and 3302 courses in Group 0 require:

1. Satisfactory completion of 45 semester hours, including the following courses or their equivalents: Psychology 1300 and 2315 and Math 1315.
2. Achievement of an SWT grade-point average of 2.50 in all credit course work. (Transfer students must meet with a departmental advisor early in their first semester to have their previous course work evaluated.)

Following admission to the major, students satisfying the course prerequisites are eligible to enroll in Psychology 3301 and 3302. (All substitutions for these courses based on transfer of credits from other colleges and universities must be approved by the Chair of Psychology.) Students on academic probation or suspension are dismissed from the major and ineligible to enroll in Psychology 3301 and 3302. Students who are dismissed from the major may reapply when they again achieve a 2.50 SWT grade point average.

**Major**-36 semester credit hours, of which at least 24 hours must be at the 3000 or 4000 level.

1. All courses in Group 0 are required-12 hours.
2. Choose three semester hours from each of Groups 1-4-12 hours.
3. Twelve semester hours from ungrouped courses or other 1-4 group courses, of which at least six semester hours must be at the 3000 or 4000 level-12 hours. Students planning to attend graduate school are encouraged to take Psychology 4318, 4391 and 4395.

## Teacher Certification in Psychology

Teacher certification in psychology is available with a major in Psychology. Contact the undergraduate advisor in the Psychology Department to determine appropriate requirements.

## General Requirements

1. Psychology 1300, 2315, 3301, and 3302 are the foundation for all serious study of psychology; much material covered in later courses depends on a thorough knowledge of topics in these four. These courses are prerequisites for 3341 and all 4000 level courses, but students with advanced background in an area relevant to a particular 4000 level course may petition the instructor to have these prerequisites waived for that course. Majors and minors are urged to complete these four courses by the end of the first semester of the junior year.
2. Psychology 1300 is a prerequisite for all other psychology courses.
3. Psychology majors are required to have a minor. See p. 70 of the catalog.
4. Mathematics 1315 is required for all majors and for teacher certification. (See departmental advisor for higher level math substitutions.)
5. All majors pursuing a BS must complete Biology 1410, 1420. Students electing the BA may substitute Biology 1310 for Biology 1410.
6. For the BS a science minor or 17 additional hours of science and/or mathematics are required. These courses may be selected from Anthropology 2414, 2415, biology (above 1420), chemistry, physics (including astronomy), mathematics (1317, 1329, 2321, and above), computer science (1318 and above) and geology.
7. For the BA, students are required to take two additional science and/or mathematics courses. These courses may be selected from Anthropology 2414 or 2415, biology (above 1420), chemistry, physics (including astronomy), mathematics (1317, 1329, 2321, and above), computer science (1318 and above), and geology.
8. For the BA, students are required to complete sophomore level courses, 2310 and 2320, in a modern language; (BA students will usually take 14 hours to reach the required level of proficiency.)
9. For the BS, students are required to take two courses in the same modern language. Students with prior language course work may want to explore receiving credit by examination for the modern language courses.
10. For the BS and BA, the general studies international perspective requirement will usually be met by the modern language courses.
11. All majors must select courses in the major and throughout the curriculum to fulfill the 18 hours of Writing Intensive course requirement.
12. At least 40 hours, numbered 3000 or higher, must be taken. Of these, at least 24 hours must be in psychology; minors and electives must be selected to ensure a total of 40 hours.
13. For the BS and BA, the general studies social science perspective course must be taken outside the Psychology Department.
14. A capstone course, either in the major or in another discipline, is required.
15. For additional information, request a copy of the "Guide for Psychology Majors and Would-Be Majors" from the Department of Psychology.

## Minor in Psychology

**Minor**-21 semester credit hours, of which at least 12 hours must be 3000 or 4000 level.

1. Psychology 1300.
2. Eighteen additional semester hours, of which at least 12 hours must be at the 3000 or 4000 level.

## Bachelor of Science Major in Psychology (Minimum required: 133-140 semester hours)

Freshman Year	Hours
Biology 1410, 1420 .....	8
Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics 1315 (or higher) .....	3
Phy. Fitness Perspective (2 courses).....	2
Psychology 1300 .....	3

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Sophomore Year	Hours
English (Literature).....	6
Science.....	6

Modern Language .....	6-8
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Psychology 2315, 3301 .....	6
Psychology, free choice .....	3

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36-38

<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Minor or electives or	
Social Science .....	12
Science.....	7
Psychology 3302 .....	3
Psychology, Group 1, advanced .....	3
Psychology, Group 2, advanced .....	3
Psychology, Group 3, advanced .....	3

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<b>Senior Year</b>	<b>Hours</b>
Science.....	4
Minor or Electives .....	12-17
Psychology, Group 4, advanced .....	3
Psychology, advanced.....	9
Capstone .....	3

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31-36

**Bachelor of Arts**  
**Major in Psychology**  
**(Minimum required: 130-142 semester hours)**

<b>Freshman Year</b>	<b>Hours</b>
Biology 1310 or 1410, 1420.....	7-8
Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics 1315 (or higher) .....	3
Phy. Fitness Perspective (2 courses).....	2
Psychology 1300 .....	3

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31-32

<b>Sophomore Year</b>	<b>Hours</b>
English (Literature).....	6
Modern Language.....	6-8
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Psychology 2315, 3301 .....	6
Psychology, free choice .....	3
Science or Mathematics .....	6

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36-38

<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313 .....	3
Minor or electives or Social	
Science .....	12-15
Modern Language.....	6
Psychology 3302 .....	3
Psychology, Group 1, advanced .....	3
Psychology, Group 2, advanced .....	3

Psychology, Group 3, advanced ..... 3

### Courses in Psychology (PSY)

**1300 (PSYC 2301) Introduction to Psychology. (3-0)** A survey of the major principles derived from research on human and animal behavior. Topics studied include learning, thinking, motivation, emotion, personality, the senses, perception, and the form and functions of the nervous system. Psychology 1300 is a prerequisite for all other psychology courses.

**3301 Quantitative and Statistical Methods. (3-0)** The application of elementary descriptive statistics, statistical inference, and correlation and regression of behavioral science data, with an emphasis on the relationship of theory and methods in the research setting. Prerequisite: Psychology major standing or permission of the Department Chair.

**Group 1: Individual Differences in Behavior.**

**3316 Personality Psychology (3-0)** A comprehensive introduction to research, theory, and application in the field of personality. Individual differences and situation influences are examined concerning authoritarianism, achievement motivation, anxiety, intelligence, self-concept, interpersonal attraction, aggression, sexuality, and altruism. An integrative model is suggested for describing and predicting human behavior. Prerequisite: Psychology 3302 or consent of instructor.

## Group 2: Biological Bases for Behavior

**4322 Brain and Behavior. (3-0)** Research findings and theoretical concepts concerned with the physiological, anatomical, and pharmacological bases of behavior. Topics covered include the sensory systems, the physiological mechanisms of motivation, and the physiological correlates of associate processes such as learning. Prerequisite: Psychology 3302 or consent of instructor.

### Group 3: Social Bases for Behavior

**3333 Industrial Psychology. (3-0)** The study of applying psychological knowledge and techniques to the modern industrial environment. Topics studied include employee needs, attitudes, selection, testing, boredom, motivation, anxiety, and job satisfaction.

### Group 4: Learned Bases of Behavior

(WI) **4342 Learning and Memory. (3-0)** A study of the basic problems in the acquisition of responses, treating with such constructs as reinforcement, extinction, retention, forgetting, problem solving, motivation, and punishment. Major theories are treated through attention to classical experiments, but greatest emphasis is given contemporary research. Prerequisite: Psychology 3302 or consent of instructor.

## Ungrouped Courses

**2311 (PSYC 2306) Psychology of Human Sexuality. (3-0)** A psychological and physiological examination of the human sexual experience from conception through old age. Current research findings serve as a basis for study. Major consideration is given to the human sexual system, the sexual act, sexual attitudes and behavior, and sexual complications.

**2350 (PSYC 2315) Psychological Adjustment. (3-0)** The psychological principles underlying the nature of mental and emotional health and its minor deviations in terms of remedial and preventive treatment, and a positive program for successful adjustment within modern social contexts.

**3312 Adolescent Psychology. (3-0)** A developmental psychology course designed to examine the complex characteristics of human cognitive and emotional life during the period of adolescence. Emphasis is directed toward the basis of behavior, interpersonal relationships, development, growth, and motivation. Prerequisite: Psychology 2315.

**3313 Psychology of Adulthood and Aging. (3-0)** The development of individuals in the post-adolescent period, particularly after middle age. Topics studied include social, psychological, and physiological changes and problems associated with the aging process.

(WI) **3314 Psychology of Consciousness. (3-0)** An introduction to theory, research, and experiential applications in the study of consciousness; topics studied include the findings and implications of post-Einsteinian science relevant to the study of consciousness.

(WI) **3332 Psychology of Women. (3-0)** The special problems and demands made on the woman within modern western culture. Topics studied include status, roles, values, opportunities, expectations, stress, and self-realization of the modern woman.

(WI) **3350 Behavior Modification. (3-0)** The course provides theory, research, and application of psychological principles that affect humans in education, business, and personal life. Emphasis is placed on effective use of reinforcement, classroom management, self-control, relaxation, and assertiveness.

(WI) **3352 Group Processes. (3-0)** A study of how the individual relates to his group membership. Students will analyze the development and functioning of their own groups, with attention to such issues as problems faced by group members in the early phases of a group's existence, leadership roles, group pressure, and trust. Prerequisite: Consent of instructor. (Apply in advance.)

**3353 Computer Applications in the Social and Behavioral Sciences and Education. (3-0)** The use of computers in instruction and research. Topics studied include the collection and analysis of data, human experimentation, instructional techniques, natural language processing, modeling and simulation. Prerequisite: Psychology 3302.

(WI) **3361 Health Psychology. (3-0)** This course will survey contemporary theory and research on body/mind interaction in physical and mental health. Emphasis will be on personality, psychosocial, and stress factors in physical health, but the effects of physical health and life style on psychological well-being will also be covered. Other topics will include pain management, longevity and aging, and coping with illness and dying.

**4318 Psychological Measurement. (3-0)** A study of the principles, concepts, and methods involved in the use of tests and inventories currently being used in the assessment of intelligence, aptitudes, interests, and personality, with emphasis on the proper administration, scoring, and evaluation of psychological instruments. Prerequisites: Psychology 3301; Psychology 3302 or consent of instructor.

**4323 Evolution and Behavior. (3-0)** A consideration of the evolution and function of behavior as viewed from a biological base. The course includes a comparative analysis of species-specific behaviors in man and lower animals. Laboratory periods will be devoted to observation and classification of behavior, as well as independent laboratory research. Prerequisite: Psychology 3302 or consent of instructor.

(WI) **4352 Introduction to Clinical Psychology. (3-0)** Overview of clinical psychology with emphasis on current theories and methods of individual psychotherapy. Class discussion of readings, films, audiotapes, and live examples illustrating these approaches. Experiential learning via class exercises in pairs and small groups, and by role-playing both therapist and client in a series of helping sessions. Practical focus on developing relationship skills and job skills. Prerequisites: Psychology 3315 and 3302 and consent of instructor. (Apply in advance.)

**4357 Interviewing. (3-0)** The principles and techniques of interviewing, emphasizing research findings relevant to appraisal and personnel assessment. The course is designed to acquaint the student with the problems and skills associated with interviewing. Prerequisite: Psychology 3302 or consent of instructor. (Apply in advance.)

**\*4390 Selected Topics in Psychology. (3-0)** Tutorial sessions focusing in depth on a selected topic of great interest in psychology. Topics must be within the scope of 3000 or 4000 level psychology courses presently in the catalog. Open to junior and senior students by invitation of instructor and consent of the chair.

(WI) **4391 History and Theory. (3-0)** Study of the evolution of psychology as a science through a systematic review of the principal scientific and philosophic antecedents of modern psychology, and analysis of the status of the major contemporary theoretical schools. Prerequisite: Psychology 3302 or consent of instructor.

(WI) **\*4395 Individual Study. (3-0)** Students design and execute original research, or engage in extensive fieldwork, in the field of psychology under the supervision of a faculty member. All students planning to attend Graduate School are advised to enroll in the course. Prerequisites: Psychology 3302 and consent of instructor.



## **Department of Sociology**

*Chair and Professor-Matlock. Professors-Day, Ellis, Ford, Jorgenson, Short. Associate Professor-Anderson. Assistant Professors-Folse, Forbes, Hartman, Rowe, Trepagnier. Instructor-Johnson. Lecturers- Dee, Miley.*

Sociology contributes both to the classic liberal arts tradition and to the practical application of the liberal arts to the world of work. Sociology majors may choose the Bachelor of Arts (BA), which prepares them for professional or graduate study in the liberal arts tradition, or the Bachelor of Science in Applied Sociology (BSAS), which provides practical research skills for students who wish to enter the work force upon graduation. Majors in both degree programs learn to conduct social research, to work with computers, and to enhance the practical skills of writing and analysis. Graduates enter a variety of fields, including law, management, education, the ministry, public administration, and human resource management in business and industrial settings.

For more information about sociology, call 245-2113 or visit the department in Liberal Arts 232. The Department of Sociology provides academic advising and encourages all students considering a major in sociology to take advantage of these services. Suggested degree plans, while helpful in planning an academic schedule, should not be used in lieu of academic advising. Visit the Sociology Home Page at: <http://sienna.soci.swt.edu>

### **Sociology Majors and Minors**

Students may earn one of two degrees in sociology: the Bachelor of Arts Degree and the Bachelor of Science in Applied Sociology Degree. Two minors are available through the department: Sociology and Social Gerontology.

### **Bachelor of Arts Major in Sociology (Minimum required: 128 semester hours)**

The BA in sociology is the traditional degree for students interested in entering professions, including law, management, education, the ministry, public administration, and human resource management in business and industrial settings. As such, it is a preprofessional degree which includes courses designed to prepare students for professional or graduate study. Students who are interested in collecting, analyzing, interpreting, and presenting data on a variety of social phenomena may select the BA.

An undergraduate major in sociology consists of a minimum of 30 hours and a maximum of 36 hours in sociology. All students under the BA are required to take Sociology 1310 (or 3300), 3305 (or 3306), 3307, and 3308.

#### **Notes:**

1. Sociology majors must select a minor from the list of approved minors on page 75.
2. Eighteen hours of writing intensive courses (not including English 1310, 1320) are required for graduation.

<b>Freshman Year</b>	<b>Hours</b>
Sociology 1310.....	3
Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics 1315 or 1319 .....	3
Natural Science Perspective*.....	7-8
Philosophy 1305 .....	3
Phy. Fitness Perspective (2 courses).....	2

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34-35

<b>Sophomore Year</b>	<b>Hours</b>
Sociology 3307 and three hours .....	6
English (Literature).....	6
Minor .....	3
Modern Language*** .....	8
Political Science 2310, 2320 .....	6
Social Science Perspective** .....	3

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Junior Year	Hours
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Sociology 3305 or 3306, and six hours .....	9
Art, Dance, Music, or Theatre 3313 .....	3
Electives .....	6
BA Science Requirement.....	3
Minor .....	6
Modern Language.....	6

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30-33

Senior Year	Hours
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Capstone Course (Sociology 3308) and nine hours .....	12
Electives .....	9
Minor .....	9

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\*At least one semester of laboratory science.

\*\**Not Sociology 1310 or 3300.*

\*\*\*Satisfies the International Perspective in a spoken foreign language.

## **Bachelor of Science in Applied Sociology Major in Applied Sociology (Minimum required: 128 semester hours)**

The BSAS is a 33 hour major designed for students who wish to apply sociological principles and practices in governmental and business settings. All students under the BSAS are required to take Sociology 1310 (or 3300), 3305 (or 3306), 3307, 3308, 3318, and a field internship, Sociology 4690 (offered only in the fall and spring semesters). The remainder of the course work should be selected with the student's occupational goals in mind. This should be done with the advice of the assigned undergraduate advisor in Sociology.

The following specialization tracks are optional for majors in the BSAS. The tracks are intended as guidelines to help meet occupational goals. It is not necessary to select a specialization track.

**Business and Society**-3319, 3324, 3327, 3328, 3353, 3363, 3370, 4330

**Deviance and Social Control**-2320, 3325, 3327, 3343, 3347, 3348, 3363

**Sociological Practice**-2320, 3319, 3324, 3337, 3347, 3348, 3363, 3370, 3383, 3384

**Gerontology**-3319, 3337, 3363, 3383, 3384, 4330

**Applied Research**-3328, 3363, 3370, 4330, 4332

### **Notes:**

1. Students must complete general studies requirements (see page 60) and requirements for the BS. These are reflected in the "Suggested Degree Plan" below.
2. In addition to General Studies requirements and requirements for the BS degree, students must complete two semesters of a foreign language.
3. Beyond the 18 hours of required courses in Sociology, students should select 15 hours of Sociology courses related to their occupational goals.
4. In the senior year, majors must complete a field internship related to their applied sociological training and minor concentration.
5. Enrollment in the internship requires completion of all other course work in the major and the following minimum GPA's: an SWT GPA of 2.0, a GPA of 2.25 in the major and a GPA of 2.0 in the minor.

<b>Freshman Year</b>	<b>Hours</b>
Sociology 1310.....	3
Communication 1310 .....	3
English 1310, 1320.....	6
General Studies 1100.....	1
History 1310, 1320 .....	6
Mathematics 1315 or 1319 .....	3
Natural Science Perspective.....	7-8
Phy. Fitness Perspective (2 courses).....	2

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<b>Sophomore Year</b>	<b>Hours</b>
Sociology 3307, three hours .....	6
English (Literature).....	6
Modern Language* .....	8
Philosophy 1305 .....	3
Political Science 2310, 2320 .....	6
Social Science Perspective** .....	3

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<b>Junior Year</b>	<b>Hours</b>
Sociology 3305 (or 3306), 3318 and six hours .....	12
Art, Dance, Music, or Theatre 3313 .....	3
Electives .....	11
Minor .....	9

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Senior Year	Hours
Capstone Course (Sociology 3308) and three hours .....	6
Electives .....	9
Minor .....	9
Sociology 4690 in the last semester.....	6

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\*Satisfies the International Perspective in a spoken foreign language.

\*\*Not Sociology 1310 or 3300.

## Minor in Sociology

A minor in sociology consists of a minimum of 18 semester hours, including Sociology 1310 (or 3300). Twelve of the remaining 15 hours must be advanced.

## Minor in Social Gerontology

Students who desire to build on an academic base leading to further study in gerontology or to a career working with programs directly or indirectly oriented toward older persons may select social gerontology as a minor.

A minor in social gerontology requires 18 semester hours including 9 hours from the following core courses: Sociology 1310 (or 3300), 3383, Social Work 4320, Psychology 3313.

The remaining nine hours shall be selected from the following courses: Sociology 3308, 3327, 3337, 3383, 3384, Social Work 4320, Psychology 2315, 3313, 3361, Recreational Administration 1320, Long Term Health Care Administration 3308, 4315, 4338, and Geography 3350.

For information, contact 512-245-2113.

## Courses in Sociology (SOCI)

**Sociology 1310 or 3300 is a prerequisite to all other sociology courses except Sociology 3300, 3327, and 3350.**

**1310 (SOCI 1301) Introduction to Sociology. (3-0)** A survey of the basic concepts in sociology including social organization, culture, socialization, groups, and human population leading to the development of a sociological perspective of human behavior. Sociology 1310 and 3300 may not both be counted for credit.

**2320 (SOCI 1306) Social Problems. (3-0)** Community problems, significant social issues, and disorganization in major social institutions in contemporary American society.

**2340 Social Aspects of Computers. (3-0)** This course examines the social trends being stimulated by the increasing use of computers, especially microcomputers. The focus of the course is on the influence of computers on human interaction and organization, as well as the effects of social groups on computer utilization. Students will examine social problems associated with computers.

**(WI) 3300 Principles of Sociology. (3-0)** Survey of the discipline of sociology, including socialization, social institutions, collective behavior, urban and community studies, demography, race relations, culture, and personality. Emphasis on basic concepts and the behavioral science approach to the study of human groups. Sociology 1310 and 3300 may not both be counted for credit.

**(WI) 3305 History of Sociology. (3-0)** A survey of the historical development of sociology and the theories of the major sociologists.

**(WI) 3306 Contemporary Sociological Thought. (3-0)** A survey of major theories and schools of thought in modern sociology.

**3307 Statistics for the Behavioral Sciences. (3-0)** The application of descriptive and inferential statistics of behavioral science data.

**(WI) 3308 Introduction to Social Research. (3-0)** The logic and basic techniques in sociological research. Prerequisite: Sociology 3307.

**3318 Computer Applications for Sociology. (3-0)** This course introduces the student to some of the uses of various existing statistical software packages including proper application, limitations, and interpretations of results. Prerequisites: Three hours of statistics.

**3319 Social Psychology. (3-0)** The basic course in social psychology; the nature of the individual in society; the process of socialization; the human personality; personality and social adjustment; and social interaction.

**3324 Life Styles. (3-0)** The study of inequality as it relates to occupational, educational, religious, political, and other social activities.

**3325 Social Deviance. (3-0)** Theoretical and descriptive analysis of the major types of deviant behavior.

**3327 Multicultural Relations. (3-0)** The nature and the problems inherent in racial and other minority groups, with special reference to the American scene.

**3328 Complex Organizations. (3-0)** The study and analysis of complex organizations, bureaucracies, and professions and their influence on individuals and society and its institutions.

**3337 The Family. (3-0)** A comparative study of the family in various cultures, both historical and contemporary, with attention to the family in terms of social organization, social change, and social disorganization.

(WI) **3340 Sociology of Sport and Leisure. (3-0)** The theories and research in leisure and popular culture will serve as the broad framework. An emphasis will be placed on the sub-area of sport sociology, including such topics as sport and aggression, competition, children, women, minorities, professionalism, and others.

**3343 Criminology. (3-0)** The various theories of crime, the cause of crime, areas of crime, treatment of criminals through the courts, punishment, reform, education, probation, and parole, and means of crime prevention.

(WI) **3347 Juvenile Delinquency. (3-0)** Delinquency in modern society, basic factors and conditions of juvenile delinquency, and the problem of delinquency control.

**3348 Social Control. (3-0)** An examination of the creation and maintenance of order in society, including socialization and institutions which respond to disorder. Included areas are education, religion, law, welfare, and medicine. Focus on law as both a mechanism of control and the basis for control in other institutions in industrial society.

**3349 Drugs and Society. (3-0)** A sociological examination of the social context of drug abuse with emphasis on the social factors, processes, and institutions that impact drug abuse. Applications of sociological theories and research methods will be studied.

**3350 Men, Women, and Societies. (3-0)** This course examines the relations between male and female roles throughout the world, including the United States, Europe, and third world countries. Special attention is given to changes in these roles and the consequences of such changes for societies, including familial, marital, and sexual relationships.

**3353 Urban Society. (3-0)** A study of urbanization as a social phenomenon with attention to traditional sociological studies of the community.

(WI) **3363 Medical Sociology: The Sociology of Health and Illness Behavior. (3-0)** An examination of the social determinants and consequences of human health, morbidity, and mortality, including considerations of health institutions, organizations, professionals, and clients. Social epidemiology of human diseases and mortality and changing relationships of acute and chronic diseases are stressed.

**3366 Folkways and Folklore: An Introduction. (3-0)** A study of the folkways of the cultures of Texas through selected examples of traditional beliefs, customs, folktales, songs, arts, games, artifacts, and techniques for the collection and preservation of folk materials.

(WI) **3370 Industrial Sociology. (3-0)** The social setting and formal organization of work; individual and group adaptation in industrial organization.

**3375 Selected Topics in Sociology. (3-0)** Sociological analysis and interpretation of selected topics of special interest in the areas of social organization, social disorganization, and social interaction. Topics treated and instructors will vary from semester to semester.

**3383 The Sociology of Aging. (3-0)** A study focusing on the processes of aging primarily in American society and including attention to the special problems related to the middle and later stages of the life cycle.

**3384 The Sociology of Death and Dying. (3-0)** A study of the sociological and social psychological perspectives on death and dying in contemporary societies with particular emphasis on the meanings of death, on dying as a social process, and on death in the context of both social organization and the life cycle.

(WI) **4330 Population. (3-0)** Composition of the world's population; population growth, problems, policies, and controls.

**4332 The Sociology of Education. (3-0)** An examination of education as a formal institution and as a social system. Emphasis is placed upon the nature and functions of education organization in modern societies.

**4360 Directed Study. (3-0)** (By arrangement) A course of independent study open to superior students by permission of the professor and approval of the Chair of the department. May be repeated with different emphasis.

**4690 Internship in Applied Sociology. (6-0)** A supervised work experience related to students' career interests and/or area of concentration. Requirements include a 300 hour internship within an organization in the public or private sector, plus seminars on working as applied sociologists. To qualify for enrollment, students must complete all prerequisites established by the Department. Internships are offered only during the fall and spring semester.

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**





# **SCHOOL OF SCIENCE**

**Stanley C. Israel, Ph.D., Dean**

## **Department Chairs**

Biology..... Francis L. Rose, Ph.D.  
Chemistry..... Carl J. Carrano, Ph.D.  
Computer Science ..... Moonis Ali, Ph.D.  
Mathematics..... Stanley G. Wayment, Ph.D.  
Physics ..... James R. Crawford, Ph.D.

## **SCHOOL OF SCIENCE**

The mission of the School of Science is threefold: to prepare students for careers in the natural or physical sciences, mathematics, or computer science; to provide general scientific and mathematical backgrounds for non-science majors; and to prepare students for advanced training in professional or graduate schools. To accomplish its mission the school maintains an academic atmosphere conducive to excellence in teaching and research and enforces high standards of performance for faculty and students.

To ensure an understanding of basic scientific concepts, the school offers extensive opportunities for student participation. Students gain experience in laboratories, interact with the environment through field studies, conduct undergraduate research, and train in technologically advanced instrumentation. A combination of student participation, rigorous classroom instruction, and library research gives majors a competitive advantage in career advancement or in the selection of professional or graduate schools. The non-science major is assured of adequate scientific knowledge to make informed decisions essential to citizens in a science-oriented, technological world.

The five academic departments in the School of Science are the Departments of Biology, Chemistry, Computer Science, Mathematics, and Physics. Each department offers both the BA and BS. Majors include aquatic biology, botany, chemistry, computer science, general biology, general physiology, marine biology, mathematics, microbiology, physics, wildlife biology, and zoology. In addition, pre-professional programs of study are available in dentistry, medicine, engineering, and pharmacy. Secondary teacher certification may be incorporated into either the BA or BS degrees. Coursework in the Geological Sciences is available through the Department of Physics.

The School of Science Advisement Center provides students with counseling on academic and administrative issues. Students are informed about matters related to academic majors and career possibilities, the selection of appropriate courses, the choice of an educational program leading to a bachelor's degree, and participation in pre-professional programs. The Advisement Center is a resource for current and prospective students who are considering a science major or pre-professional program, and provides assistance for students applying for graduation.

For more information, call or visit the office of the dean.

## **Department of Biology (Including General Science)**

*Chair and Professor-Rose. Professors-Aron, Baccus, Horne, Huffman, Koehn, Koke, Lemke, Lewis, Longley, Ostlund, Tuff, Whiteside. Associate Professors-Arsuffi, Barnes, Benjamin, Groeger, Tarsitano, Walter, West, Williamson. Assistant Professors-Farr, Garcia, McLean, Ott. Lecturers-Manning, Prabhakaran, Simpson, Upchurch*

Biology is the study of life; it attempts to understand the tremendous diversity of living beings and how they interact with each other. Because the activities of scientists and technologists alter our lives and environment in so many ways, knowledge of the biological sciences is becoming increasingly important for any educated person.

The Biology Department offers the BS and BA in the classical disciplines of general biology, botany, and zoology. For those who seek more specialized education, degrees in aquatic biology, marine biology, wildlife biology, microbiology and physiology are available.

Biology majors take a minimum of ten courses that include the core curriculum of botany, zoology, anatomy/physiology, genetics, cell biology, and ecology. Required courses in chemistry, mathematics and physics provide a broad scientific background. A minor outside the Biology Department is required. The BS in biology is often the choice for those seeking pre-medical and pre-dental education.

Biologists usually find employment in research or education. Many graduates work with state agencies such as the Texas Department of Water Resources, Public Health, Parks and Wildlife, or the various health science/medical centers and biotechnology laboratories. The U.S. Fish and Wildlife Service, The Lower Colorado River Authority, and the Upper Guadalupe River Authority are also potential employers. Certification programs are available in microbiology and wildlife management. Interested students should see the chair or the major area advisers.

The Biology department website is <http://www.bio.swt.edu/>

### **Major and Minor in Biology**

Majors in biology take a minimum of ten courses.

A minor in biology takes a minimum of six courses of which at least three courses are advanced. A year of chemistry is required.

A grade of at least a C is required in all prerequisite courses.

## **Bachelor of Arts Major in Biology (Minimum required: 128-136 semester hours)**

### **Notes:**

1. A teaching certificate is available with this degree but will require extra hours.
2. General Studies requirements include 18 hours of Writing Intensive courses and 3 hours of the International Perspective.
3. A total of 40 advanced hours is required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

<b>Freshman Year</b>	<b>Hours</b>
Biology 1410, 1420 .....	8
Chemistry 1410,1420.....	8
English 1310, 1320*.....	6
General Studies 1100*.....	1
History 1310, 1320* .....	6
Philosophy 1305* .....	3
Phy. Fitness Perspective (2 courses)* .....	2

<b>Sophomore Year</b>	<b>Hours</b>
Biology (see majors).....	8
Communication 1310*.....	3
English (Literature)*.....	3
English 3303.....	3
Mathematics 2321.....	3
Modern Language 1410, 1420.....	8
Political Science 2310, 2320 .....	6

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Junior Year Hours	
Art, Dance, Music, or Theatre 3313*.....	3
Biology (see majors).....	12
Minor (or elective hours).....	6-12
Modern Language 2310, 2320.....	6
Social Science Perspective* (advanced hours) .....	3

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<b>Senior Year</b>	<b>Hours</b>
Biology (see majors).....	12
Minor (advanced hours).....	10-12
Physics 1410, 1420.....	8

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## Bachelor of Science Major in Biology (Minimum required: 128-140 semester hours)

### Notes:

1. Recommended minor is chemistry.
2. A teaching certificate is available with this degree but will require extra hours.
3. General Studies requirements include 18 hours of Writing Intensive courses and 3 hours of the International Perspective.
4. A total of 40 advanced hours is required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

<b>Freshman Year</b>	<b>Hours</b>
Biology 1410, 1420 .....	8
Chemistry 1410, 1420.....	8
English 1310, 1320*.....	6
General Studies 1100*.....	1
History 1310, 1320* .....	6
Philosophy 1305* .....	3
Phy. Fitness Perspective (2 courses)*.....	2

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<b>Sophomore Year</b>	<b>Hours</b>
Biology (see majors).....	8
Chemistry 2410, 2420.....	8
Communication 1310*.....	3
English (Literature)*.....	3
English 3303.....	3
Mathematics 2321, 2331.....	6
Political Science 2310, 2320 .....	6

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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313*.....	3
Biology (see majors).....	12
Minor (or advanced elective hours).....	8
Modern Language/ International Perspective** .....	3-8
Social Science Perspective* (advanced hours) .....	3



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\*See the General Studies section of this catalog.

\*\*If two years of the same foreign language were taken in high school, then 3 hours of General Studies International Perspective and enough additional hours to total the minimum 128 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken.

## Biology Majors (without teacher certification)

**Aquatic Biology: Requirements**-Biology 2430 or 3465, 2460 or 3440, 3400 or 3450, 3460, 4415, 4416, 4470, and one advanced biology course. Chemistry 3410.

**Botany: Requirements**-Biology 2460 or 3440, 3400 or 3450, 3410, 3461, 3465, 4411 or 4412, 4454, and one Biology elective.

**General Biology\*: Requirements**-Biology 2430 or 3465, 3400 or 3450, 2460 or 3440, 4416 or 4454 and 4 advanced Biology courses.

**General Physiology: Requirements**-Biology 3465, 2460\* or 3440, 3400 or 3450, 3421 or 4450, 4416 or 4454, 4441, 4442, and one Biology elective. Chemistry 3410.

**Marine Biology: Requirements**-Biology 2430 or 3465, 2460 or 3440, 3400 or 3450, 3410, 3422, 3470, 4416 or 4454, and nine semester credit hours of marine biology (three courses). Marine biology courses are limited to formal biology courses taken at a marine station and must be approved by the marine advisor prior to registration.

**Microbiology: Requirements**-Biology 2430, 2460, 3440, 3400 or 3450, 3 of the following: (3442, 4446, 4426, 4445); 4416 or 4454. Chemistry 3410 and 4375; or Chemistry 4375, 4385, 4275.

**Wildlife Biology: Requirements**-Biology 2430 or 3465, 2460 or 3440, 3400 or 3450, 3461, 4421, 4422, 4423, 4454, and two of the following: 4416, 4420, 4425.

**Zoology: Requirements**-Biology 2430, 2460, 3400 or 3450, 3470, 3480 or 3490 or 3495, 4416, 4420, and 4465.

## Teacher Certification in Biology

Students seeking certification to teach biology will follow coursework leading to the BS or BA degree, in addition to taking the necessary courses prescribed by the Texas Education Agency. A minor in chemistry is suggested. Initial or additional certification may be acquired after completing the degree and enrollment in a masters program or as a post-graduate. Students interested in certification are strongly encouraged to see an appropriate adviser in the Biology Department.

## Courses in Biology (BIO)

**\*\*1310 Principles of Biology. (3-0)** This course covers basic principles of Biology such as the scientific method, cell theory, evolution, genetics, organismal functions, flow of energy through the environment, ecology, and stresses the relationships between these principles and the everyday life of man. Biology 1410 or 1420 must be completed before this course will be accepted for credit toward any degree. May not be credited toward a biology major or minor or secondary teaching field. Approved course for the General Studies Natural Science Perspective.

**\*\*1410 (BIOL 1411) Introduction to Plant Biology (General Botany). (3-2)** This course presents a panorama of plant life and how plants function, live, reproduce, and interact with their environment and man. The botanical principles discussed will convey a conceptual unity to the knowledge about plants and their relationships in a dynamic world.

**\*\*1420 (BIOL 1413) General Zoology. (3-2)** This course presents a panorama of animal life and how animals function, live, reproduce, and interact with their environment and man. The zoological principles discussed will convey a conceptual unity to the knowledge about animals and their relationships in a dynamic world.

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\*\*1310, 1410, 1420 may be taken in any sequence.

**2430 Human Physiology and Anatomy. (3-4)** A course on human physiology covering the various organ systems. Principles of molecular biology, cell and tissue structure, anatomy and relationship of structure and function are stressed. Specifically designed for (1) biology majors requiring only a one-semester human physiology course and (2) home economics majors. Prerequisite: Biology 1310 or 1420 and Chemistry 1310 or 1410.

**2440 Principles of Microbiology. (3-3)** The Basic Principles of microbiology, morphology, physiology, immunology and the relationship of microorganisms to diseases. This course is designed primarily to meet the requirements for students in allied health sciences and other programs requiring only one semester of microbiology. This course may not be credited toward a biology major or minor.

**(WI) 2460 Cell Biology. (3-3)** Fundamentals of structure and function of prokaryotic and eukaryotic cells. Course includes cell and organelle structure, basic biochemistry, principles of thermodynamics and energy transformation, nucleic acid and protein synthesis, and enzyme kinetics. Prerequisite: Biology 2430 and 8 hours of Chemistry.

**3351 General Genetics. (3-0)** Basic principles of genetics which relate to the problems of human populations. A course in genetics for non-science majors. May not be credited toward a biology major. Not creditable toward a biology minor if credit is received for either Biology 3400 or 3450. Prerequisites: Biology 1410 and 1420.

**(WI) 3400 Evolution and Genetics. (3-3)** Fundamental studies of the structure and function of genetic material and the mechanisms of biological evolution. Course principles include molecular genetics, cytogenetics, population genetics, natural selection and macroevolution. May not be credited toward a biology major or minor if credit received for Biology 3450. Prerequisite: Biology 1410 and 1420. Note: Students who take Biology 3400 cannot receive credit for either BIO 4301 or 3450.



**3406 Economic Botany. (3-3)** An introduction to the utilization of plants by humans and their economic and ecological significance. Laboratories will stress plant features beneficial to economic and societal needs.

(WI) **3407 Environmental Science. (3-3)** An ecosystem approach to our world is used to show that stability of living systems depends upon balance of nutrients, energy, and populations. An understanding of natural selection is developed and related to adaptations, ecosystem balance, succession, and the position of humans in the biosphere. Laboratories will emphasize ecosystem interactions and coactions. Limited to Minors.

**3410 Morphology of Non-Vascular Plants. (3-3)** A study of algae, fungi, charophytes, mosses, and liverworts. Lectures and laboratory studies emphasize evolution, comparative morphology and culture techniques. Prerequisite: Biology 1410 and 1420.

(WI) **3421 Vertebrate Physiology. (3-3)** The physiology of vertebrate organs will be explored by study of the systems in which they function. Mammalian systems will be emphasized. The systems studied include the nervous system, the musculoskeletal system, the endocrine system, the cardiovascular system, the respiratory system, the digestive system, the reproductive system and the urinary system. Prerequisite: 2430 or 2460 or 3465.

(WI) **3422 Oceans and Estuaries. (3-3)** The study of the physical, morphometric and chemical aspects of oceans and estuaries with emphasis on the flow of energy within the marine environment. At least two field trips are taken to visit marine stations and to collect material for analysis on campus. The course is designed specifically for those students with a major in marine biology. Prerequisite: Biology 1410 and 1420. Biology 3470 is strongly recommended.

**3430 Mycology. (3-3)** A study of the fungal kingdom including slime molds and lichens. Laboratory studies will emphasize taxonomy, morphology and culture techniques.

(WI) **3440 Microbiology. (3-4)** Principles of microbiology, morphology, anatomy, physiology and taxonomy of representative groups of non-pathogenic organisms. Laboratory methods stress studies of pure cultures, the use of laboratory apparatus in quantitative determinations and the detection and identification of microbial populations in the environment. Prerequisite: Biology 1410, 1420 and one semester of organic chemistry or consent of the instructor.

(WI) **3442 Virology. (3-4)** The structure, multiplication and genetics of bacterial, plant, and animal viruses. The role of viruses in human and plant disease. Prerequisites: Biology 2460, 3440. One semester organic chemistry recommended.

**3450 Genetics. (3-3)** Basic principles of inheritance. Lecture: Mendelian principles of inheritance, sex linkage, epistasis, genetic mapping, DNA replication, transcription, translation, genetic expression. Laboratory: Genetic transformation, conjugation, and DNA damage. Also cover monohybrid dihybrid, multiple allelic and sex linked inheritance in *Drosophila*. No credit toward biology major or minor if credit received for Biology 3400. Prerequisite: Biology 1410 and 1420. Note Students can only receive credit for one of the following: Biology 3450 or 3400.

(WI) **3460 Aquatic Biology. (3-3)** An introduction to plant and animal life in the fresh water habitats of the local area.. Prerequisites: Biology 1410 and 1420 and Chemistry 1410 and 1420.

**3461 Plant Taxonomy. (3-3)** Principles of identification and classification of plants; nomenclature and characteristics of various plant groups with emphasis on the higher plants. Prerequisite: Biology 1410.

**3465 Plant Physiology. (3-3)** Basic principles of plant physiology studied in lecture and laboratory. Prerequisite: One year of biology and one year of chemistry. One semester of organic chemistry is strongly recommended. Prerequisite: Biology 1410 and Chemistry 1310 or 1410 or 1420.

**3470 Invertebrate Zoology. (3-4)** A study of the comparative morphology, evolution, systematics and natural history of invertebrates. Prerequisite: Biology 1410 and 1420.

**3480 Histology. (3-4)** A study of the structural and functional relationships between cells and tissues in organs. The laboratory includes the study of prepared slides and of microtechnique. This course is designed to meet the needs of pre-professional students. Prerequisite: Biology 2430.

**3490 Vertebrate Embryology. (3-3)** A comparative study of the processes and forms of vertebrate embryonic development with emphasis on the human. The laboratory includes the study of sea urchin, *Amphioxus*, frog, chick and pig embryos. Prerequisite: Biology 2430.

**3495 Comparative Vertebrate Anatomy. (3-4)** A comparative study of structural evolution of the vertebrate body. The laboratory work consists of dissection and study of *Amphioxus*, lamprey, dogfish, *Necturus*, a reptile, a bird and/or mammal. This course is designed to suit the needs of biology majors and minors and pre-professional students.

**4299 Undergraduate Research. (0-4)** Available only to biology majors with at least a "B" average, and with prior permission of a supervising professor. Does not supplant any of the courses necessary for the biology major. May be repeated once for credit.

**4301 Evolution. (3-0)** Basic genetic principles applied to natural selection, adaptation, populations, speciation and man's future. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems and certain other selected topics. Prerequisite: Biology 1410 or 1420 and 3450. Note: Students can only receive credit for one of the following: Biology 4301 or 3400.

**4305 Nature Study. (3-3) A comprehensive survey of natural events. Includes laboratory and field work emphasizing observation, collection and discovery of relationships. Creditable only for those seeking elementary certification.**

**4402 Earth Science I. (3-3)** The description and interpretation of earth phenomena considered from the standpoint of meteorology and astrosience. Includes field observations, methods of measurement and interpretation of data related to the physical environment and space technology. May not be counted toward a major or minor in biology.

**4403 Earth Science II. (3-3)** The description and interpretation of earth phenomena considered from the standpoint of geology and oceanography. Includes field observations, methods of sampling and interpretation of data related to the physical environment. May not be counted toward a major or a minor in biology.

**4408 Science Processes and Research. (3-3)** Students will analyze research design, design research, interpret data, and communicate results. Stress on broad-field structure and integration of major science concepts and science knowledge. Should be taken the semester prior to student teaching.

**4410 Field Biology of Plants. (3-3)** Ecological relationships and natural history of plants, including historical geology, geography, soils, vegetational regions and surface geology of central Texas. Emphasis is placed on plant-soil-water relationships to develop conservation concepts. Students will make a representative collection of plants.

**4411 Morphology of the Vascular Plants. (3-3)** The structure, life-cycles and evolution of fossil and living vascular plants. Emphasis on such topics as the origin of land plants, evolution of the ovule, angiospermy, the flower and fruit. Prerequisite: Biology 1410 and Chemistry 1410 or 1420

**4412 Plant Anatomy. (3-3)** The anatomy of vascular plants stressing descriptive, development and comparative aspects of seed plants and the anatomical adaptations of plants to environmental factors. Prerequisite: Biology 1410 and Chemistry 1410 or 1420.

**4413 Parasitology. (3-4)** The biology and biological significance of the common parasites of man and animals. (S). Prerequisite: Biology 1420.

**4415 Ichthyology. (3-3)** An introduction to the morphology, taxonomy, natural history and evolution of fishes. Field trips will be made to collect specimens and laboratory periods will be devoted to morphological and systematic analysis. Prerequisite: Biology 1420.

(WI) **4416 General Ecology. (3-3)** The ecological relationships that exist between organisms and those relationships that exist between organism and environment. Laboratory sessions will be devoted to literature review and/or specific ecological problems. Prerequisites: Biology 1410 and 1420 and one additional year of Biology and Chemistry.

(WI) **4420 Natural History of the Vertebrates. (3-3)** Environmental relationships and natural history of vertebrates. Emphasis is upon taxonomy, speciation and biotic provinces. The laboratory will include field trips for the study and collection of animals in their natural habitats. Students will assemble a representative collection of animals. Prerequisite: Biology 1420.

**4421 Ornithology. (3-3)** Introduction to anatomy, behavior, ecology and identification of birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements.

**4422 Mammalogy. (3-3)** The taxonomy, distribution, ecology, behavior and evolution of mammals with particular emphasis on wild animals of the southwest. Laboratory will emphasize anatomy, identification, preparation of specimens and field exercises in the methods of population analysis. Prerequisite: Biology 1420; Biology 4416 is recommended.

(WI) **4423 Wildlife Management. (3-3)** Applications of the principles of ecology and natural history to the management of wildlife habitats and control of wildlife populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation and field trips to observe wildlife management projects. Prerequisite: Biology 1410 and 1420; Biology 4416 or 4421 or 4422 is recommended.

**4425 Biometry. (3-3)** Basic principles of statistical methods as applied to biological problems such as sampling techniques, analysis of data, experimental design and population dynamics. Emphasis will be on practical application. Prerequisite: Math 1315.

(WI) **4426 Immunology (3-4)** A study of the immune response, antigen/antibody reactions, major histocompatibility complex, and immunopathology. Prerequisites: Biology 3440, 2460. One semester organic chemistry recommended.

**4434 Herpetology. (3-3)** A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. Emphasis will be placed on North American species and those groups inhabiting Texas. Prerequisite: Biology 1420.

**4435 Techniques in Wildlife Management. (3-3)** The basic methodology of practical wildlife management. This involves techniques in monitoring and data collection related to population dynamics and habitat parameters of wildlife species.

**4440 Pathogenic Fungi. (3-4)** A general study of fungi with special emphasis on the taxonomy, sources, incidence, medical factors and host-pathogen relationships of pathogenic fungi. Prerequisite: Biology 3440 or consent of instructor.

(WI) **4441 Cellular Physiology. (3-3)** Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology. Prerequisites: Biology 2460 and one semester of Organic Chemistry.

**4442 Experimental Techniques. (3-3)** Use of methods and instruments applicable to biological investigations, including colorimetry; UV-spectrophotometry; fluorescence; flame and atomic absorption spectrophotometry; paper, gas, gel filtration and ion exchange chromatography; radioactive counting; and electrophoresis.

(WI) **4445 Pathogenic Microbiology. (3-4)** Pathogenic bacteria and their relationship to disease, emphasizing identification of selected groups of pathogens, epidemiology and the biological basis for resistance. Prerequisite: Microbiology 3440 or consent of instructor.

(WI) **4446 Microbial Ecology. (3-4)** This course will illustrate the wide variety of bacteria in nature, their interactions with other organisms and the environments, and their roles in global cycling of elements such as carbon, nitrogen, and sulfur. The laboratories will feature enrichments for selected groups of microorganisms (sulfate reducers, nitrogen fixers) and analysis of these isolates by microscopy, gas chromatography and radiochemical substrate utilizations. Prerequisite: Biology 3440.

**4450 Physiological Ecology of Animals. (3-3)** This course brings together the principal concepts of environmental physiology of animals inhabiting the major ecological realms of the earth (land, air, sea, and fresh water). The biological problems associated with living in the various ecological realms will be discussed, and the biochemical and physiological adaptations of animals to their diverse habitats will be studied.

(WI) **4454 Plant Ecology. (3-3)** Physiological ecology and community structure and function in the organization of terrestrial plant ecosystems. Quantitative vegetational sampling and the use of field and laboratory physiological equipment are included in the laboratory. Prerequisite: Biology 4416, 3465 or Biology 2460.

**4465 General Entomology. (3-3)** Principles of morphology, physiology and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. Prerequisite: Biology 1420.

(WI) **4470 Limnology. (3-3)** The physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnological sampling methods, chemical, and biological analysis of samples and hydrographic surveying are included in the laboratory. Prerequisite: One year of chemistry or consent of the instructor.

**4475 Molecular Biology and Genetics. (3-3)** Lecture: Prokaryotic genetic analysis, structural aspects of proteins, bacteriophage genetics, genetic code, gene expression, enzymology of DNA replication and repair. Laboratory: Bacterial growth and maintenance, isogenic strain construction, genetic transformation, transduction, conditional mutagenesis, genetic complementation, restriction enzyme digestion and agarose gel electrophoresis. Prerequisite: Biology 3450.

**4480 Cytology and Microtechnique. (3-3)** A study of cellular ultrastructure and electron microscope technique. The lecture portion of the course will cover cytology of all cell types and theoretical aspects of light microscopy and electron microscopy. Laboratory portion will train students to proficiency in transmission electron microscopy (TEM). Prerequisite: Biology 2460.

**4481 Internship in Biological Laboratory Technologies. (0-15)** The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper, reporting the internship experience conducted at the biological unit under the supervision of a faculty member, will be required.

### **Courses in General Science (GS)**

**3310-3320 General Science. (3-2)** A laboratory course designed to acquaint the student with the fundamentals of physical, biological, and earth science. Creditable only for elementary or special education degree candidates. Prerequisite for 3310: Physics 1310 and 1320 and 1110. Prerequisite for 3320: Biology 1310 or 1410 or 1420.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Catalog.**

## Department of Chemistry

*Chair and Professor-Carrano. Professors-Cassidy, Fitch III, Irvin, Perry, Rudzinski, Yager. Associate Professors-Compton, Lippmann, Assistant Professors-Blanda, Easter, Feakes, Watkins.*

The science of chemistry provides the basic knowledge needed to address many of society's most pressing needs, such as feeding, clothing, and housing the peoples of the world; tapping new sources of energy; improving health and conquering disease; providing renewable substitutes for dwindling resources; strengthening our national security; and monitoring and protecting our environment. Basic research in chemistry will help future generations cope with their evolving needs and unanticipated problems. Chemistry majors gain skills in quantitative thinking and problem solving. Advanced students can work as laboratory instructors for lower division courses or as research assistants in the department's research laboratories. The faculty, facilities, library holdings, and curriculum of the Department of Chemistry have been approved by the American Chemical Society.

Chemists work in research, production, quality control, technical services, and/or sales. Graduates have an excellent record of job placement in such diverse areas as the petrochemical industry, computer chip manufacturing, aerospace companies, pharmaceutical companies, the food industry, or as teachers in secondary schools. Many also seek advanced degrees or pursue careers in medicine, dentistry, or pharmacy.

For more information, call 245-2156 or visit the Chemistry Building room 238.

Recipients of the BS in chemistry are awarded certificates by the American Chemical Society stating that the minimum requirements for professional chemists have been fulfilled. This program is recommended as preparatory training for graduate or industrial work in chemistry.

The BA is a liberal arts degree designed for students who need a background in chemistry in preparation for other careers, i.e., medicine, dentistry, pharmacy, patent law.

A minor in chemistry requires Chemistry 1410, 1420, 2410, 2420, 3410, and one advanced course.

A minor in Biochemistry can also be obtained and requires Chemistry 1410, 1420, 2410, 2420, 4375, 4385, and 4275.

## Bachelor of Science Major in Chemistry (Minimum required: 128-135 semester hours)

### Notes:

1. A major in chemistry consists of Chemistry 1410, 1420, 2410, 2420, 3245, 3330, 3340, 3410, 4231, 4241, 4331, 4341 and at least six semester hours to be taken by election from Chemistry 4275, 4299, 4333, 4375 or 4385.
2. Students should consult a departmental adviser before selecting a minor.
3. General Studies requirements include 18 hours of Writing Intensive courses and 3 hours of the International Perspective.
4. A teaching certificate is available with this degree but will require additional hours.
5. A total of 40 advanced hours is required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

<b>Freshman Year</b>	<b>Hours</b>
Chemistry 1410, 1420.....	8
English 1310, 1320*.....	6
General Studies 1100*.....	1
History 1310, 1320*.....	6
Mathematics 2363, (or 2417).....	3-4
Philosophy 1305*.....	3
Phy. Fitness Perspective (2 courses)*.....	2
Communication 1310*.....	3
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32-33	

<b>Sophomore Year</b>	<b>Hours</b>
Chemistry 2410, 2420.....	8
English 3303.....	3
English (Literature)*.....	3
Mathematics 2471, 2472.....	8
Minor.....	4
Physics 1430, 2425.....	8
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<b>Junior Year</b>	<b>Hours</b>
Chemistry 3245, 3330, 3340, 3410.....	12

Minor .....	8
Modern Language/International Perspective** .....	3-8
Political Science 2310, 2320 .....	6

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29-34

<b>Senior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313* .....	3
Chemistry 4231, 4241, 4331, 4341 .....	10
Chemistry, advanced .....	6
Minor and elective course .....	11-12
Social Science Perspective *	
(Economics 2320 is recommended) .....	3

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### **Bachelor of Arts** **Major in Chemistry** **(Minimum required: 128-137 semester hours)**

**Note:**

1. General Studies requirements include 18 hours of Writing Intensive courses.
2. A teaching certificate is available with this degree but will require additional hours.
3. A total of 40 advanced hours is required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

<b>Freshman Year</b>	<b>Hours</b>
Chemistry 1410, 1420 .....	8
English 1310, 1320* .....	6
General Studies 1100* .....	1
History 1310, 1320* .....	6
Mathematics 2363 (or 2417) .....	3-4
Minor .....	3-4
Philosophy 1305* .....	3
Phy. Fitness Perspective (2 courses)* .....	2

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32-34

<b>Sophomore Year</b>	<b>Hours</b>
<b>Chemistry 2410, 2420</b>	<b>8</b>
English 3303 .....	3
English (Literature)* .....	3
Mathematics 2471, 2472 .....	8
Physics 1410, 1420 (or 1430, 2425) .....	8
Political Science 2310, 2320 .....	6

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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313* .....	3
Chemistry 3245, 3330, 3340, 3410 .....	12
Minor .....	6-8
Modern Language 1410, 1420 .....	8
Social Science Perspective* .....	3

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32-34

Senior Year	Hours
Chemistry, advanced.....	3
Chemistry 4241, 4341.....	5
Communication 1310*.....	3
Electives, advanced (or minor as required).....	7
Minor, advanced.....	4-9
Modern Language 2310, 2320.....	6

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\*See the General Studies section of this catalog.

\*\*If two years of the same foreign language were taken in high school, then 3 hours of General Studies International Perspective and enough additional hours to total the minimum 128 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken.

## Chemistry as a Teaching Field

Since the B.S. in Education degree is no longer available, students seeking certification to teach chemistry will follow coursework leading to the BS or BA degree, in addition to taking the necessary courses prescribed by the Texas Education Agency. Initial or additional certification may be acquired after completing the degree and enrollment in a master's program or as a post-graduate. Students interested in certification are strongly encouraged to see an appropriate adviser in the Chemistry Department.

## Courses in Chemistry (CHEM)

**1310 (CHEM 1305) Introductory Chemistry for Non-Science Majors. (3-0)** A one-semester principles course for students in non-science related majors which covers not only the major concepts of chemistry (chemical theory, stoichiometry, bonding and elementary thermodynamics) but also the role of chemistry in problems of contemporary society (energy, pollution, water, etc.). Must be followed by Chemistry 1430 for General Studies credit.

**1410 (CHEM 1411) General Chemistry I. (3-3)** The first of two courses for science related majors, this course covers the basics of atomic and molecular structure, bonding, states of matter, solutions, and some descriptive chemistry. Emphasis is placed on solutions to chemical problems; a basic knowledge of algebra is required. Students will not receive credit for both Chemistry 1310 and 1410.

**1420 (CHEM 1412) General Chemistry II. (3-3)** The second of two courses for science related majors, this course covers equilibrium processes, acid-base concepts, elementary thermodynamics and kinetics, electrochemistry, nuclear chemistry, and descriptive chemistry of some families of elements. Chemistry 1410 is a prerequisite.

**1430 (CHEM 1407) Chemistry for Non-Science Majors. (3-3)** A one semester course which surveys organic and biochemistry and may include petro-chemistry, nuclear chemistry, synthetic and natural polymers. Prerequisite: Chemistry 1310 or 1410.

**2130 Laboratory Technique in Organic Chemistry. (0-3)** An optional laboratory to accompany Chemistry 2330, covers experimental techniques of preparation, purification, and determination of physical and chemical properties of organic compounds. Prerequisite: Chemistry 1420. Corequisite: Chemistry 2330.

**2330 Organic Chemistry. (3-0)** A one-semester course which covers nomenclature, structure and reactions of organic compounds. Natural products and synthetic materials of importance to students of nutrition, allied health sciences and agriculture will be emphasized. Prerequisite: Chemistry 1420.

**2410, 2420 (CHEM 2423 & CHEM 2425) Organic Chemistry. (3-3)** Course covers general principles, theories, preparation and reactions of elementary organic chemistry with special emphasis on the classes, characteristics and structures of compounds. Laboratory covers techniques as well as study of typical reactions. Course meets premedical requirements. Prerequisite: Chemistry 1420.

**2450 Biochemistry. (3-3)** A one-semester study of carbohydrates, proteins, lipids, and vitamins which present digestion, absorption, and intermediary metabolism along with an introduction of the function of enzymes and coenzymes in these processes. Course is designed for students majoring in nutrition, allied health sciences, and agriculture. Prerequisite: Chemistry 2330 or 2420.

**(WI) 3245 Physical Chemistry Laboratory. (1-4)** Experiments illustrating principles and methods of physical chemistry are performed. Written reports on the experiments are prepared. Prerequisites: Chemistry 3330 and Chemistry 3410.

**3330 Physical Chemistry I. (3-0)** The course covers principles of thermodynamics and thermochemistry, phase equilibria, electrochemistry and elementary kinetics including rate laws and mechanisms. Prerequisite: Chemistry 1420 and Mathematics 2472 or 2331.

**3340 Physical Chemistry II. (3-0)** The course covers mechanics, spectroscopy and statistical thermodynamics and other selected topics. Prerequisites: Chemistry 3330, Physics 2425 (or 1420), Mathematics 2472.

**3410 Quantitative Analysis. (3-6)** Course covers the general theory and practice of typical methods of gravimetric and volumetric analysis, satisfies the quantitative analysis requirements for chemistry majors, minors, pre-medical and pharmacy students. Prerequisite: Chemistry 1420.

(WI) **4231 Advanced Laboratory I. (2-4)** An advanced integrated lab illustrating a variety of chemical techniques for the preparation, characterization and analysis of organic and inorganic materials. Prerequisites: Chemistry 3410, 3340, 3245, and Prerequisite or Corequisite: Chemistry 4331.

(WI) **4241 Advanced Laboratory II. (2-4)** An advanced integrated lab illustrating a variety of chemical techniques for the preparation, characterization and analysis of inorganic and organic materials. Prerequisites: Chemistry 3410, 3340, 3245, and Prerequisite or Corequisite: Chemistry 4341.

(WI) **4275 Laboratory Techniques in Biochemistry. (1-6)** Experiments illustrating principles and methods of biochemistry are performed. Emphasis is placed on the use of instrumentation employed in research on animal, microbial and plant tissue. Prerequisite: Chemistry 4375, with C or better.

**4299 Undergraduate Research. (0-4)** This course is available to undergraduate chemistry majors only. It may be repeated but a maximum of four semester hours from this course are applicable toward the Bachelor of Science degree. Prerequisite: Permission of department.

**4331 Instrumental Analysis (3-0)** The theory and methodology associated with the quantitative analysis of materials, i.e., electronics, spectroscopy, electrochemistry and chromatography are presented. Prerequisite: Chemistry 3340.

**4341 Advanced Inorganic Chemistry (3-0)** Chemical bonding, coordination chemistry compounds, acid-base concepts, and other topics are included along with some descriptive chemistry. Prerequisite: Chemistry 3340.

**4333 Spectroscopy. (3-0)** The study of various spectrometric techniques in qualitative and structural analysis of chemical substances. Prerequisite: Chemistry 2420.

**4336 Laboratory Methods of Physical Science I. (2-4)** A laboratory oriented course in chemistry in which some of the basic principles and concepts are illustrated and investigated in a laboratory setting.

**4337 Laboratory Methods of Physical Science II. (2-4)** A laboratory oriented course in chemistry in which some of the basic principles and concepts are illustrated and investigated in a laboratory setting.

**\*4371 Directed Study. (3-0)** Independent study on a particular subject area in chemistry. The specific study area, resource material, goals, and achievements will be approved by the instructor. Prerequisites: Chemistry 2420, 3410, and permission of instructor.

**4375 Biochemistry. (3-0)** A course devoted to a study of the chemistry of carbohydrates, lipids, proteins, enzymes, and nucleoproteins. A study of enzyme kinetics and thermodynamics of coupled reactions is included. Note: Credit for Chemistry 4275 is not required for credit in Chemistry 4375. Prerequisite: Chemistry 2420.

**4385 Metabolism. (3-0)** A study of the biodegradation and biosynthesis of carbohydrates, lipids, amino acids, proteins, and nucleic acids. Prerequisite: Chemistry 2420.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Catalog.**

## Department of Computer Science

*Chair and Professor-Ali. Professors-Davis, Early, Hwang. Associate Professors-Durrett, McCabe, Ogden, Peng, Sawey. Assistant Professors-Amon, Goss, Hall, Hazlewood, Slomka. Lecturers-Kaikhah, Reichenau.*

The Department of Computer Science offers courses in computer architecture, compilers, operating systems, UNIX programming, system programming, software engineering, computer graphics, data base design, computer networks, system simulation, distributed systems, automata theory, human factors, real-time computing, managing computer operations, scientific programming, artificial intelligence, and computer science education. The department offers a major and minor in Computer Science with courses leading to the BS or BA degree. Other courses are available for students seeking teacher certification.

Computer Science graduates work in every sector of industry: hardware manufacture; software development; computer applications in the petroleum, aerospace, and chemical industries; and secondary school teaching.

The Applied Software Technology Research Center (ASTRC) at Southwest Texas State University was established specifically to help organizations stay abreast of the theory and application of software technology. The ASTRC has two basic programs: to perform applied research to develop computer science and software engineering technologies and to assist organizations transfer and apply computer science and software technologies.

The Computer Science department website is <http://www.cs.swt.edu/>

For more information about bachelor's degrees, call (512) 245-3409 or visit the department, in the Mathematics and Computer Science Building, Room 560.

**Bachelor of Arts  
Major in Computer Science  
(Minimum required: 132 semester hours)**

**Notes:**

1. A total of 40 advanced hours is required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. Minor fields of study may be chosen from the list of approved minors on page 75. Advanced Computer Science electives are recommended for additional required hours after satisfying the minor requirements.
3. At least two of the following courses should be chosen in order to meet the writing intensive requirements of the General Studies curriculum: Sociology 3300, English 3303 or 3313, Computer Science 3398 or 3468.

**Freshman Year**

<b>First Semester</b>	<b>Hours</b>
Computer Science 1108, 1318.....	4
Communication 1310*.....	3
General Studies 1100*.....	1
English 1310*.....	3
History 1310*.....	3
Mathematics 1315, 1319, or higher.....	3

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<b>Second Semester</b>	<b>Hours</b>
Computer Science 2308.....	3
English 1320*.....	3
History 1320*.....	3
Mathematics 2358.....	3
Philosophy 1305*.....	3
Phy. Fitness Perspective (one course)*.....	1

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**Sophomore Year**

<b>First Semester</b>	<b>Hours</b>
Computer Science 3358, 3409.....	7
Mathematics 3398.....	3
Modern Language.....	4
Natural Science Perspective.....	4

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<b>Second Semester</b>	<b>Hours</b>
Computer Science 2318.....	3
Modern Language.....	4
Minor .....	3
Natural Science Perspective** .....	4
Social Science Perspective*.....	3

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\*See the General Studies section of this catalog.

\*\*SOCI 3300 is recommended.

\*\*\*The student must take two 4-hour laboratory courses in the same science. Biology 1410, 1420; Chemistry 1410, 1420; Geology 1410, 1420; or Physics 1410, 1420 are recommended.

### **Junior Year**

<b>First Semester</b>	<b>Hours</b>
<b>Computer Science 3398</b>	<b>3</b>
English (Literature)*.....	3
Minor .....	3
Phy. Fitness Perspective (one course)*.....	1
Modern Language.....	3
Mathematics.....	3

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<b>Second Semester</b>	<b>Hours</b>
Computer Science advanced.....	6
English (Literature or 3303 or 3313).....	3
Minor .....	6
Modern Language.....	3

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**Senior Year**

<b>First Semester</b>	<b>Hours</b>
Computer Science advanced .....	6
Political Science 2310* .....	3
Minor .....	6

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<b>Second Semester</b>	<b>Hours</b>
Computer Science 4326 or 4398 .....	3
Computer Science.....	3
Art, Dance, Music, or Theatre 3313*.....	3
Political Science 2320* .....	3
Minor.....	3

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\*See the General Studies section of this catalog.

## **Bachelor of Science** **Major in Computer Science** **(Minimum required: 130-134 semester hours)**

Requirements are the same as in the Bachelor of Arts degree, except:

1. Computer Science 3339 plus an additional 2 semester hours of Computer Science electives are required.
2. A total of 17 hours in Math is required: 2358, 2471, 2472, 3305, and 3398. The mathematics requirements, plus enough mathematics electives to total 21 hours of mathematics, serve as a minor.
3. An additional 8 hours of natural science are required, not necessarily from the natural science perspective list.
4. The sophomore year of modern language is not required.

### **Computer Science as a Teaching Field**

Students seeking certification to teach Computer Science will follow coursework leading to the BA or BS degree and will take courses prescribed by the Texas Education Agency. Initial or additional certification may be acquired after completing the bachelor's degree, while enrolled in a master's program, or as post-graduate work. Students interested in certification should see the Computer Science education adviser in the Department of Computer Science.

### **Minor in Computer Science**

A minor in Computer Science consists of Computer Science 1108, 1318, 2308, 2318, 3358, 3409 and at least six advanced hours in Computer Science. Mathematics 2358 and 3398 are also required.

### **Courses in Computer Science (CS)**

**1108 Computer Science Seminar. (1-0)** An orientation to possible areas of specialization in computer science and an introduction to campus computing facilities including computer center policies, operating systems, command language, text editor, and text formatting. Required of all computer science majors and minors.

**1308 Introduction to Computer Science. (2-2)** A study of the uses of computers and their effects on society. Some programming in a procedure-oriented language. An introductory course assuming no previous computer or other technical background.

**1318 Foundations of Computer Science. (3-0)** An introductory technical course for potential majors in computer science. Logical organization and operation of a computer; development of algorithms; programming in a structured language; number systems and data representations; Boolean algebra; combinational digital circuits. Prerequisite: A grade of C or better, or concurrent registration in, CS 1108.

**2308 C Programming. (3-0)** Logical basis of a digital computer system; machine representation of numbers and characters; flow of control, arithmetic and logical operations, machine control, input-output, basic number codes and programming. Prerequisite: A grade of C or better in CS 1318.

**2318 Assembly Language. (3-0)** A course covering the organization of digital computers; assembly language programming including addressing, looping, logic, shifting and masking operations, macros, subroutines, co-routines, arithmetic algorithms, recursion and input-output programming. Prerequisites: A grade of C or better in CS 2308 and CS 3409.

**2378 Topics in Computer Science. (3-0)** Selected topics in Computer Science from areas of system programming, data structures, database, computer architecture, etc. Materials will be designed to the needs of the class. May be repeated with different emphasis for additional credit. Prerequisite: Consent of instructor.

**2388 Internet Programming on the World Wide Web. (3-0)** An introductory course covering web page construction using HTML and Java Script.

**2428 Applications Programming in Visual Basic. (3-1)** This course is a self-contained programming course using the new language, Visual Basic, suitable for Windows applications.

2478 Topics in Computer Science. (3-2) **Selected topics in Computer Science from areas including software engineering, programming languages, and computer architecture. Laboratory is integrated with lecture topics. Materials will be designed to the needs of the class. May be repeated with different emphasis for additional credit. Prerequisite: Consent of instructor.**

**2488 FORTRAN Programming for Science and Engineering. (3-2)** An introduction to high level programming languages emphasizing techniques common to the sciences. Topics are selected from numerical approximation, linear systems, statistics and simulation. Prerequisite: A grade of C or better in Mathematics 1315.

**3339 Computer Architecture. (3-0)** Use of fundamental hardware components to create computer instruction set architectures, ALU's, single and multiple cycle datapath and control, RISC vs. CISC, pipelining, caches, I/O, virtual memory, and related performance issues. Prerequisites: Grade of C or better in CS 2318 and 3409.

**3348 Deterministic Operations Research. (3-0)** This course provides a broad view of deterministic operations research techniques. Topics include dynamic programming, linear and integer programming, deterministic inventory models, and sequencing problems. See Math 3348. Prerequisite: Math 1315 with a grade of at least C.

**3358 Data Structures. (3-0)** A course covering data structures and file handling techniques in a high level language. Prerequisites: A grade of C or better in CS 2308 and Math 3398.

**3378 Theory of Sequential Machines. (3-0)** An introduction to automata, computability, and formal languages. Prerequisite: A grade of C or better in CS 2318.

(WI) **3398 Software Engineering. (3-0)** The study of software design, implementation, and validation techniques through team projects. Structured analysis, programming style and project documentation are emphasized in software projects large enough to give a group meaningful work experience. Prerequisite: A grade of C or better in CS 3358.

**3409 Fundamentals of Computer Technology. (3-2)** An introduction to computer hardware and the technologies used to create, capture, and communicate digital information. A laboratory provides hands-on experience with the subject matter, e.g. electricity, combinational and sequential digital circuits, VLSI, etc. Prerequisite: Grade of C or better in Math 2358.

(WI) **3468 Small Scale Computer Systems. (3-2)** A study of the architecture of mini- and micro-computers, their peripherals, languages, and operating systems, and the special techniques required to use them. Prerequisites: A grade of C or better in CS 2318 and 3409.

**4100 Computer Science Internship. (1-0)** Provides on-the-job training supervised by computer scientists in industry internship programs approved by the computer science department.

**4310 Computer Networks. (3-0)** A survey of network architectures and their components. Emphasis will be on media access, network and transport layer protocols. Prerequisite: A grade of C or better in CS 3358.

**4318 Theory of Program Translators. (3-0)** A study of computer languages, data structures, algorithms and theory used in constructing compilers and other program translators. Prerequisites: A grade of C or better in CS 3358.

(WI) **4326 Human Factors of Computer Systems. (3-0)** An introduction to basic principles and research findings in the two fields of cognition, perception and systems analysis as they apply to the design and use of computer systems. Prerequisite: A grade of C or better in CS 3358.

**4328 Operating Systems. (3-0)** Principles of operating systems. Algorithms for CPU scheduling, memory management, cooperating sequential processes and device management. Prerequisites: A grade of C or better in CS 2318 and 3358.

**4332 Introduction to Database Systems. (3-0)** Introduction to database concepts, data models, file structures, query languages, database management systems. Prerequisite: A grade of C or better in CS 3358.

**4340 Systems Simulation. (3-0)** A study of the fundamentals of building and using computer-based models to investigate the behavior of systems composed of inter-related elements characterized by probabilistic behavior by providing literacy in the use of discrete-event simulation as a problem-solving tool. Prerequisite: Three hours of statistics or permission of the instructor.

**4346 Introduction to Artificial Intelligence. (3-0)** An introduction to the basic concepts of artificial intelligence; search techniques, knowledge representation, problem solving. Prerequisite: A grade of C or better in CS 3358.

**4350 UNIX Programming. (3-0)** Fundamentals of UNIX operating systems, UNIX programming tools, UNIX programming environment, shells, and shell programming. Prerequisite: Grade of C or better in CS 3358.

**4364 Real-Time Computing Applications. (3-0)** An introduction to the problems, concepts, and techniques in software systems that must interface with time dependent systems. The course concentrates on application systems by carrying out example projects, but it also covers operating system features necessary to support real-time applications. Prerequisite: A grade of C or better in CS 3358.

**4368 Survey of Computer Languages. (3-0)** Differences in language implementations and structures caused by differing program goals are examined by surveying languages such as LISP, ADA, SNOBOL, C++ and others. Prerequisite: A grade of C or better in CS 3358.

**4378 Topics in Computer Science. (3-0)** Selected topics in Computer Science from areas of system programming, data structures, data base, computer architecture, or other subjects for undergraduate junior/senior students. Materials will be designed to the needs of the organized lecture class. May be repeated with different emphasis for additional credit. Prerequisite: Consent of instructor.

**4378H Managing Computer Operations. (3-0)** Selected topics on general management and specific topics in computer management including organization, staffing, procurement, security, and system administration. Other topics include facility planning, capacity planning, strategic planning, disaster recovery planning, system development methodologies and project management. Prerequisite: At least junior classification, majoring in Computer Science or related field.

**4378P Introduction to Digital Multimedia. (3-0)** Concepts, problems and techniques in digital multimedia. Topics include digital representation of video and data compression. Applications, primarily in education and business presentations, and new and potential capabilities, such as video on demand and virtual reality. Prerequisite: CS 3358.

**4388 Computer Graphics. (3-0)** A study of the hardware and software used in graphic representation and interpretation of data. Prerequisites: A grade of C or better in CS 3358 and Math 1317.

**4395 Independent Study in Computer Science. (3-0)** Open to undergraduate students on an independent basis by arrangement with the faculty member concerned.

(WI) **4398 Software Engineering Project. (3-0)** Students undertake a software development project. They work in teams, writing the requirements and design documents, and then the teams produce and test the software. The lectures cover updated techniques of analysis, design, implementation, and testing software. Prerequisite: A grade of “C” or better in CS 3398.

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog. In addition, graduate and undergraduate information about the Computer Science program can be found on the departmental World Wide Web site located at <http://www.cs.swt.edu>**

## Department of Mathematics

*Chair and Professor-Wayment. Professors-Bandy, Chatfield, Dix, Edgell, Hazlewood, Jia, Kennedy, Northcutt, Passty, Singh, Spellmann, Thickstun, Torrejon, M. Warshauer, Welsh. Associate Professors-Acosta, Curtin, Gu, Jones, Ratliff, Snyder. Assistant Professors-Doerr, Lee, McCabe, Morey, Smith. Lecturers-Davis, Fatehi, Fischer, Gronberg, Hermsmeier, H. Warshauer, Zielinski.*

Mathematics is a fundamental skill required at some minimal level of all educated people and required in depth by many professions.

At SWT all students must complete a mathematics course at the level of college algebra. Many disciplines require significantly more mathematical training. The department prepares students through a pre-engineering program to continue toward a career in science or engineering. Students may also prepare for a career in secondary teaching while obtaining a bachelor's degree.

Since mathematics is a clearly defined discipline in its own right, students may also prepare for a career in mathematics. A spectrum of pure and applied courses is taught to prepare students for entry into graduate school in mathematics or other closely related fields.

For more information, call 245-2551 or visit the Mathematics and Computer Science Building, Room 470.

For the BA or BS, a major in mathematics requires at least 32 semester hours, including Mathematics 2471, 2472, 3380, 4307, and 18 semester hours of advanced mathematics. The eighteen hours must follow one of two plans. The first consists of 3373, 4315, 4330 plus any three of the following courses: 3305, 3323, 3325, 3330, 3348, 3375, 3377, 3398, 3428, 4305, 4306, 4336, 4338, 4382. The second consists of 3305, 3315, 3377, 4304, 4311 and either 4315 or 4330. Notice that Mathematics 3315, 4302, 4304 and 4311 are not in the list of elective courses when taking the plan that includes Mathematics 3373. Even though Mathematics 2471 is the first required mathematics course some students will need to take courses numbered below 2471. Credit examinations in mathematics 1315, 1317, 2363 and 2417 are available.

A student seeking certification to teach at the secondary level must take Computer Science 1308 (or Psychology 3353), Reading 3324, Education 4681 and Curriculum and Instruction 3325, 4332, 4341, 4343. The student who has further questions should see the undergraduate advisor in Mathematics.

A minor in mathematics without certification consists of at least 17 hours of course work in mathematics including Mathematics 2471, 2472 and at least three advanced courses. The advanced courses may not include 3315, 4302, 4304, 4311, or 4382.

First semester freshmen who plan to enroll under the pre-engineering curriculum and whose background is inadequate for enrollment in Mathematics 2471 should attend summer school to earn credit in needed pre-calculus course work in order not to delay their graduation.

Students who do not achieve an SAT score of at least 435 (480 recentered) or an ACT math score of at least 21 must take a math placement exam administered by the University Testing Center. The examination determines which students must first enroll in Math 1300 (Pre-College Algebra) and/or Math 1311 (Basic Mathematics) before they enroll in the required Math 1315 (College Algebra) or Math 1319 (Math for Business and Economics I).

The Mathematics department website is <http://www.swt.edu.math/>

## Bachelor of Science Major in Mathematics (Minimum required: 128-132 semester hours)

### Degree Requirements:

1. At least 32 hours are required in mathematics and must include Mathematics 2471, 2472, 3380, 4307, and at least 18 semester hours of advanced mathematics. The eighteen hours must follow one of two plans. The first consists of 3373, 4315, 4330 plus any three of the following courses: 3305, 3323, 3325, 3330, 3348, 3375, 3377, 3398, 3428, 4305, 4306, 4336, 4338, 4382. The second consists of 3305, 3315, 3377, 4304, 4311 and either 4315 or 4330.
2. General Studies requirements must be satisfied. See the General Studies section of this catalog.
3. Three hours in a scientific programming language are required in computer science with Computer Science 2488 (or 1318) recommended.
4. A fourth semester of English is required for this degree.
5. One year of college level modern language is required.
6. A total of 40 advanced hours is required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

Freshman Year	Hours
Communication 1310*.....	3
Electives .....	3
English 1310, 1320*.....	6
General Studies 1100*.....	1
History 1310, 1320* .....	6
Mathematics 2471.....	4
Minor .....	8
Phy. Fitness Perspective (2 courses)* .....	2





Sophomore Year	Hours
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Computer Science (1318 or 2488	
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recommended) .....	3-4
English (Literature)* .....	3
English .....	3
Mathematics 2472 and one three	
hour advanced .....	7
Minor .....	6
Modern Language .....	6-8
Philosophy 1305* .....	3

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31-34

Junior Year	Hours
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Art, Dance, Music, or Theatre 3313* .....	3
Mathematics 3380 and two	
advanced courses .....	9
Minor .....	6
Political Science 2310, 2320* .....	6
Natural Science Perspective* .....	7-8

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31-32

Senior Year	Hours
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Electives .....	15
Mathematics 4307 and three	
advanced courses .....	12
Minor .....	3
Social Science Perspective* .....	3

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\*See the General Studies section of this catalog.

# Bachelor of Arts Major in Mathematics (Minimum required: 128-133 semester hours)

## Degree Requirements:

1. At least 32 hours are required in mathematics and must include Mathematics 2471, 2472, 3380, 4307, and at least 18 semester hours of advanced mathematics. The eighteen hours must follow one of two plans. The first consists of 3373, 4315, 4330, plus any three of the following courses: 3305, 3323, 3325, 3330, 3348, 3375, 3377, 3398, 3428, 4305, 4306, 4336, 4338, 4382. The second consists of 3305, 3315, 3377, 4304, 4311 and either 4315 or 4330.
2. General Studies requirements must be satisfied. See the General Studies section of this catalog.
3. Three hours in a scientific programming language are required in computer science with Computer Science 2488 (or Computer Science 1318) recommended.
4. Students are required to complete 2310 and 2320 in a modern language.
5. A total of 40 advanced hours is required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

<b>Freshman Year</b>	<b>Hours</b>
Communication 1310*.....	3
Electives .....	3
English 1310, 1320* .....	6
General Studies 1100* .....	1
History 1310, 1320* .....	6
Mathematics 2471.....	4
Phy. Fitness Perspective (2 courses)* .....	2
Natural Science* .....	7-8

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<b>Sophomore Year</b>	<b>Hours</b>
Computer Science (1318 or 2488 recommended) .....	3-4
English (Literature).....	6
Mathematics 2472 and 3 hours advanced.....	7
Minor .....	6
Modern Language .....	8
Philosophy 1305* .....	3

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33-34

<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313*.....	3
Mathematics 3380, and two	

**advanced courses      9**

Minor .....	9
Modern Language .....	6
Political Science 2310, 2320* .....	6

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<b>Senior Year</b>	<b>Hours</b>
Electives .....	9
Mathematics 4307, and three advanced courses.....	12
Minor .....	6
Social Science Perspective*.....	3

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\*See the General Studies section of this catalog.

## **Courses in Mathematics (MATH)**

**1300 Pre-College Algebra. (3-0)** A course to remediate and review basic academic skills in mathematics, including number concepts, computation, elementary algebra, geometry and mathematical reasoning. Mathematics 1300 will not constitute a part of the hours required for a bachelor's degree.

**1311 Basic Mathematics. (3-0)** A preparatory course for college algebra. Topics include linear equations and inequalities, rational expressions, exponents and radicals, quadratics and word problems. This course is designed for students who have graduated from high school with no more than the minimum mathematics requirements or for students who have been away from mathematics for a number of years. Prerequisite: Mathematics 1300 with a grade of "CR" or Mathematics ACT score of at least 15 (SAT 320 or SAT recentered 400); or a mathematics placement score of at least 14. Mathematics 1311 will not constitute a part of the hours required for a baccalaureate degree.

**1315 (MATH 1314) College Algebra. (3-0)** A course covering linear and quadratic equations, inequalities, word problems, functions, logarithms, systems of equations and other college algebra topics as time permits. Prerequisite: Mathematics ACT Score of at least 21 (SAT 435 or SAT recentered 480); or a mathematics placement score of at least 26; or Mathematics 1311 with a grade of A, B, C, or CR.

**1316 A Survey of Contemporary Mathematics. (3-0)** A study of the uses of mathematics in society today. Emphasis is on concepts rather than technical details. May not be used as a prerequisite for any other mathematics course. Prerequisite: Mathematics ACT score of at least 21 (SAT 435 or SAT recentered 480); or a mathematics placement score of at least 26; or Mathematics 1311 with a grade of A, B, C or CR.

**\*1317 (MATH 1316) Plane Trigonometry. (3-0)** A course covering trigonometric functions, right triangles, radian measure, graphs of trigonometric functions, trigonometric identities, including multiple and half-angle identities, inverse trigonometric functions, trigonometric equations, oblique triangles, and complex numbers. A student may receive credit for only two of Mathematics 1317, 2417, and 2363. Prerequisite: A grade of at least C in Mathematics 1315.

**1319 (MATH 1324) Mathematics for Business and Economics I. (3-0)** Topics from college algebra and finite mathematics which apply to business and economics including applications of equations and inequalities, simple and compound interest and annuities. Prerequisite: Mathematics ACT score of at least 21 (SAT 435 or SAT recentered 480) or a mathematics placement score of at least 26; or Mathematics 1311 with a grade of A, B, C, or CR.

**1329 (MATH 1325) Mathematics for Business and Economics II. (3-0)** Topics from finite mathematics and elementary differential calculus which apply to business and economics. Prerequisite: A grade of at least C in either Mathematics 1315 or 1319.

**2311 Principles of Mathematics I. (3-0)** Logical deductive reasoning, number theory, a rational development of the real numbers with the associated number structures and algorithms for the fundamental operations, including historical, philosophical and cultural significance. Prerequisite: A grade of at least a C in Mathematics 1315.

**2312 Informal Geometry. (3-0)** Geometric measuring, Euclidean Geometry, and topics associated with informal geometry, including historical, philosophical, and cultural significance. Prerequisites: A grade of at least a C in Mathematics 2311.

**2321 Mathematics for Life Sciences I. (3-0)** This course is designed to serve the needs of students in the life sciences. Topics will include: graphs, derivatives, exponents and logarithms, scientific notation, sequences, summation, and applications. Prerequisite: An ACT score in Mathematics of at least 24 (SAT 500 or SAT recentered 520) or a grade of at least a C in Mathematics 1315.

**2328 (MATH 1342) Non-Mathematical Statistics. (3-0)** Non-mathematical introduction to random sampling, mean, variance, statistical inference, testing hypothesis and regression analysis. Prerequisite: A grade of at least a C in Mathematics 1315.

**2331 Mathematics for Life Science II. (3-0)** Extension of Mathematics 2321. Topics will include: trigonometric functions, probability, integral calculus, differential equations, and applications. Prerequisite: A grade of at least a C in Mathematics 2321.

**2358 Discrete Mathematics I. (3-0)** A study of discrete mathematical structures that are commonly encountered in computing hardware and software. Prerequisite: A grade of at least a C in Mathematics 1315.

**\*2363 (MATH 1348) Analytic Geometry. (3-0)** A course covering lines, circles, parabolas, ellipses, hyperbolas, translations, rotations, polar coordinates, and vectors. A student may receive credit for only two of Mathematics 1317, 2417, and 2363. Prerequisite: A grade of at least a C in Mathematics 1317.

**\*2417 (MATH 2412) Pre-Calculus Mathematics. (3-2)** A survey of functions, trigonometry and analytic geometry to prepare students for calculus. Prerequisite: An ACT score in mathematics of at least 24 (SAT 500 or SAT recentered 520) or a grade of at least a C in Mathematics 1317.

**2471 (MATH 2413) Calculus I. (3-2)** A first course in differential and integral calculus which stresses limits as well as the applications of calculus to the problems of science. Prerequisite: An ACT score in mathematics of at least 26 (SAT 540 or SAT recentered 560) or a grade of at least a C in either Mathematics 2363 or 2417.

**2472 (MATH 2414) Calculus II. (3-2)** A continuation of differential and integral calculus including methods of integration, sequences and series, and introduction to partial derivatives. Prerequisite: Mathematics 2471 with a grade of at least C.

**3305 Introduction to Probability and Statistics. (3-0)** Basic probability models, generating functions and conditional probability, also discrete and continuous, univariate and bivariate distributions of random variables. Concepts of estimation, tests of hypothesis and statistical inference. Prerequisite: A grade of at least a C in Mathematics 2472.

**3315 Modern Geometry. (3-0)** Modern geometry with emphasis on the triangle, circle, plane and Euclidian geometry, and historical aspects will be integrated into the course. Prerequisites: A grade of at least a C in any of Mathematics 2311, 2331, or 2471.

**3323 Differential Equations. (3-0)** A course covering solutions to the more common types of ordinary differential equations, especially those of first and second order, with emphasis on geometrical and physical interpretations. Prerequisite: Mathematics 2472 with a grade of at least C.

**3325 Number Systems. (3-0)** Algebraic construction of the natural numbers. Covers the basic vocabulary and proof techniques of abstract algebra, and the structural properties of the natural numbers, integers, rational, real and complex number systems. Prerequisite: Credit or concurrent registration for Mathematics 2471.

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\*At most, only two Mathematics 1317, 2417, and 2363, may be counted for credit.

**3330 Introduction to Topology. (3-0)** An introduction to the theory of sets, relations, functions, finite and infinite sets, and other selected topics. Algebraic structure and topological properties of Euclidean Space, and an introduction to metric spaces. Prerequisite: A grade of at least a C in Mathematics 2471.

**3348 Deterministic Operations Research. (3-0)** This course provides a broad view of deterministic operations research techniques. Topics include dynamic programming, linear and integer programming, deterministic inventory models, and sequencing problems. This course is listed also as Computer Science 3348. Prerequisite: Mathematics 1315 with a grade of at least C.

**3373 Calculus III. (3-0)** A course covering sequences and series, vectors, functions of several variables, partial derivatives, multiple integrals, line and surface integrals, and applications. Prerequisite: Mathematics 2472 with a grade of at least C.

**3375 Engineering Mechanics. (3-0)** A course covering statics, using a vector approach to mechanics. The course is designed to satisfy the requirements of engineering schools. Prerequisite: Physics 1430 and credit or concurrent enrollment in Mathematics 2472.

**3377 Topics in Linear Algebra. (3-0)** An introductory course in linear algebra covering vector spaces, linear transformation, matrices, systems of linear equations, and inner product spaces. Prerequisite: Mathematics 2472 with a grade of at least C.

**3380 Advanced Calculus I. (3-0)** A course covering the introduction to the theory of real functions. Topics include limits, continuity and derivatives and associated topics. Prerequisite: Mathematics 2472 with a grade of at least C.

**3398 Discrete Mathematics II. (3-0)** A continuation of discrete Mathematics I. Prerequisite: A grade of at least C in Mathematics 2358.

**3428 Introduction to Numerical Analysis With Computer Applications. (3-2)** Basic numerical methods for function evaluation; root finding; interpolation; numerical differentiation; and numerical integration. Prerequisite: A grade of C or better in Mathematics 2472 and in a 3 hour course in FORTRAN programming.

**4302 Principles of Mathematics II. (3-0)** Probability, statistics, calculator and computer applications in mathematics, including historical, philosophical and cultural significance. Prerequisite: A grade of at least C in Mathematics 2311.

**4304 Math Understandings. (3-0)** Basic concepts underlying algebra, geometry, trigonometry, and calculus taught from an advanced standpoint, including historical, philosophical, and cultural significance. Unless specified, this course may not be counted for major or minor credit in mathematics. Must be taken before student teaching. Prerequisites: A grade of at least C in Mathematics 2472 and 3315.

**4305 Probability and Statistics. (3-0)** A course covering sample spaces, probability of events, binomial and multinomial distributions, random variables, normal approximations, statistical inference, and applications. Prerequisite: Mathematics 3305 with a grade of at least C.

**4306 Fourier Series and Boundary Value Problems. (3-0)** Advanced solution methods for differential equations; partial differential equations; series approximations, Fourier series; boundary value problems typical of scientific applications. Prerequisite: A grade of at least C in Mathematics 3323.

**4307 Modern Algebra. (3-0)** A course covering elementary set theory, structures, functions, and concepts of modern algebra. Prerequisite: A grade of at least a C in either Mathematics 3325 or Mathematics 3377.

**4311 Introduction to the History of Mathematics. (3-0)** A survey of the development of major mathematical topics, including geometry, algebra, calculus, and advanced mathematics. Philosophical and cultural aspects will be integrated with the structure, theorems, and applications of mathematics. Prerequisite: A grade of at least C in Math 3315 and a grade of at least C in either Math 2331 or Math 2472.

**4315 Advanced Calculus II. (3-0)** A continuation of Mathematics 3380. Topics include integration, series and sequences of functions and associated topics. Prerequisite: A grade of at least a C in Mathematics 3380.

**4330 General Topology. (3-0)** Topics include introductory treatment of convergence, continuity, compactness, connectedness and fixed points in topological spaces with special emphasis on metric spaces. Prerequisite: A grade of at least a C in either Mathematics 3330 or 3380.

**\*4336 Topics in Applied Mathematics. (3-0)** Selected topics including Laplace transforms, complex variables, advanced calculus for applications, calculus of variations, integral equations, intermediate differential equations, vector analysis, etc. Prerequisite: Consent of instructor.

**4338 Mathematical Modeling. (3-0)** A course covering techniques used in the building and analysis of mathematical models. Examples will be taken from a variety of fields including the physical sciences, engineering and economics. See Computer Science 4338. Prerequisite: A grade of C or better in Mathematics 2472.

(WI) **4382 The Literature and Modern History of Mathematics and Its Applications. (3-0)** This course will focus on mathematical articles in recent journals. The articles will be re-written so that the proofs and comments are more easily understood by the casual reader. This embellishment of journal articles will take place in class with the class participating, in groups for outside work and as individual assignments. Prerequisites: A grade of at least C in two of the three mathematics courses: 3380, 4307, 4330.

**For course descriptions, and further information about available graduate offerings, please consult the Graduate Bulletin.**

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\*May be repeated once for credit with a different topic.

## Department of Physics (Including Geological Sciences)

*Chair and Professor-Crawford. Professors-Michalk, Olson. Associate Professor-Gutierrez, Jackson. Assistant Professors-Galloway, Geerts. Lecturer-Doescher. Instructor-Lambert.*

Physics, the study of matter and energy, is at the root of every field of natural science and underlies all physical phenomena. The problem-solving skills learned in the study of physics are valuable even if one's career is not in a physics-related field.

To meet the needs of students interested in physics as a major, the department offers two bachelor's degrees. The BS provides a rigorous background in physics as a preparation for graduate studies or a career in industry. The BA is for students who want a background in physics but plan to pursue fields of interest other than physics as a life's work. Also, a "3-2" program in physics and engineering is available to students preparing to enter an engineering program at a cooperating institution.

Career opportunities for a physics major exist in a wide variety of settings-from teaching in a classroom to basic research in an industrial or government laboratory, as a self-employed consultant, or as a member of a multidisciplinary research team.

The Physics department website is <http://www.physics.swt.edu/>

For further information, call the department chair.

### Minor in Physics

A minor in physics consists of Physics 1430, 2425, 2435, 3312, 3414, and at least six hours of advanced physics.

**Proficiency in Mathematics.** Students who enter the university needing mathematics at a level below Mathematics 2363 are urged to attend summer school to avoid delay in starting their physics courses.

### Minor in Geology

A minor in geology consists of 19 hours, including Geology 1410, 1420, 2410, plus seven hours from 3321, 3410, 4121, 4320, and 4330.

## Bachelor of Science Major in Physics (Minimum required: 128-133 semester hours)

#### Notes:

1. A BS with a major in physics consists of at least 41 semester hours which include Physics 1430, 2425, 2435, 3312, 3320, 3411, 3414, 4310, 4312, 4315 and at least two additional advanced physics courses chosen from (3315, 3316, 3317, 4311, 4340) or courses approved by the department chairman.
2. Students should consult the departmental advisor before choosing a minor.
3. General Studies requirements include 18 hours of Writing Intensive courses and 3 hours in the International Perspective and 3 hours in the Social Science Perspective.
4. Teacher certification is available with this degree but will require extra hours.
5. A total of 40 advanced hours is required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

Freshman Year	Hours
English 1310, 1320* .....	6
General Studies 1100* .....	1
History 1310, 1320* .....	6
Mathematics 2417, 2471 .....	8
Phy. Fitness Perspective (2 courses)* .....	2
Physics 1430 .....	4
Communication 1310* .....	3

<b>Sophomore Year</b>	<b>Hours</b>
Chemistry (or Biology) 1410, 1420 .....	8
Electives or Minor, as required.....	3
English 3303.....	3
English (Literature)*.....	3
Mathematics 2472, 3373.....	7
Philosophy 1305* .....	3
Physics 2425, 2435.....	8

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<b>Junior Year</b>	<b>Hours</b>
Art, Dance, Music, or Theatre 3313*.....	3
Electives or Minor, as required.....	3
Math 3323 .....	3
Modern Language/ International Perspective** .....	3-8
Physics 3312, 3320, 3411, 3414.....	14
Political Science 2310, 2320* .....	6

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<b>Senior Year</b>	<b>Hours</b>
Electives or minor, as required (2 advanced hours) .....	11-16
Physics Electives .....	3
Physics 4310, 4312, 4315.....	9
Social Science Perspective* (Economics 2320 recommended) .....	3

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## **Physics as a Teaching Field**

Since the B.S. in Ed. is no longer available, students seeking certification to teach physics will follow coursework leading to the BA or BS degree, in addition to taking the necessary courses prescribed by the Texas Education Agency. Initial or additional certification may be acquired after completing the degree and enrollment in a master's program or as a post-graduate. Students interested in certification are strongly encouraged to see an appropriate adviser in the Physics Department.

## **Bachelor of Arts Major in Physics (Minimum required: 128 semester hours)**

### **Notes:**

1. A BA with a major in physics requires 28 hours including Physics 1430, 2425, 2435, 3312, 3411, and 9 additional hours of advanced physics courses (selected from Physics 3315, 3316, 3317, 3320, 3414, 4310, 4311, 4312, 4315).
2. A minor may be chosen from any field of interest.
3. General Studies requirements include 18 hours of Writing Intensive courses and 3 hours in the International Perspective and 3 hours in the Social Science Perspective.
4. A teaching certificate is available with this degree but will require additional hours.
5. A total of 40 advanced hours is required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

<b>Freshman Year</b>	<b>Hours</b>
English 1310, 1320* .....	6
General Studies 1100* .....	1
History 1310, 1320* .....	6
Mathematics 2471 .....	4
Philosophy 1305* .....	3
Phy. Fitness Perspective (2 courses)* .....	2
Physics 1430 .....	3
Communication 1310* .....	3



<b>Sophomore Year</b>	<b>Hours</b>
Chemistry (or Biology) 1410, 1420 .....	8
English (Literature)* .....	3
Mathematics 2472, 3373 .....	7
Physics 2425, 2435 .....	8
Political Science 2310, 2320* .....	6

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\*See the General Studies section of this catalog.

\*\*If two years of the same foreign language were taken in high school, then 3 hours of General Studies International Perspective and enough additional hours to total the minimum 128 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken.

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<b>Junior Year</b>	<b>Hours</b>
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Art, Dance, Music, or Theatre 3313*.....	3
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Electives or Minor, as required.....	8
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Modern Language.....	8
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Physics 3411, 3312.....	7
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Social Science Perspective*	
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(advanced hours recommended) .....	3
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English 3303 .....	3
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<b>Senior Year</b>	<b>Hours</b>
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Electives or minor, as required .....	20
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Modern Language.....	6
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Physics (advanced) .....	9
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## Courses in Physics (PHYS)

**1110 (PHYS 1105) Elementary Physics Laboratory (0-2)** This course explores and illustrates some of the basic principles covered in Physics 1310 and 1320. This lab should be taken as you take the second of the two courses, Physics 1310 and 1320.

**1140 (PHYS 1111) Introductory Laboratory in Astronomy. (0-2)** An introduction to the constellations, the uses of telescopes, and other material relating to the study of stars and planets. This course is designed to be taken with Physics 1340 or 1350 for those students desiring a laboratory course.

Physics 1310 and 1320 are designed for the liberal arts student. The order in which they are taken is not important. They are not recommended for pre-engineering students or majors and minors in science. The laboratory experience is recommended with the second course.

**1310 (PHYS 1305) Elementary Physics. (3-0)** A non-mathematical survey of mechanics, properties of matter, heat and sound. These topics are described in a conceptual way with applications relating to the world around us. The laboratory experience may be obtained in a separate one-hour credit lab (Physics 1110).

**1320 (PHYS 1307) Elementary Physics. (3-0)** A non-mathematical survey of electricity, magnetism, light, relativity, and atomic and nuclear physics. These topics are described in a conceptual way with applications relating to the world around us. The laboratory experience may be obtained in a separate one-hour credit lab (PHYS 1110).

**1340 (PHYS 1311) Astronomy: Solar System. (3-0)** A study of the solar system. Topics included are a study of the sun, the planets and their satellites, the comets, and other components of the solar system. Some aspects of telescopes and ancient astronomy will be included also.

**1350 (PHYS 1312) Astronomy: Stars and Galaxies. (3-0)** A study of the universe beyond the solar system. Topics included are a study of the stars and star clusters, nebulae, galaxies, and an introduction to some aspects of cosmology.

**1360 Introduction to Mathematical Physics, Part I. (3-0)** An introduction to specific mathematical topics as applied to standard classical problems in physics. Prerequisite: Mathematics 1315 or two years of high school algebra.

Physics 1410 and 1420 are designed for those students whose program requires technical physics, but who are not pre-engineering students or majors or minors in physics.

**1410 (PHYS 1401) General Physics I. (3-3)** This course is the first of a two semester sequence which is a survey of the basic laws and principles of physics and includes the topics of mechanics and heat. Emphasis is on solutions to physics problems; a knowledge of algebra and basic trigonometry is essential. Prerequisite: Grade of C or better in Mathematics 1315. Mathematics 1317 is recommended.

**1420 (PHYS 1402) General Physics II. (3-3)** This is the second course in a two semester sequence which is a survey of the basic laws and principles of physics and includes the topics of waves, electricity and magnetism, and light. Prerequisites: Physics 1410 and grade of C or better in Mathematics 1315. Mathematics 1317 is recommended

Physics 1430, 2425, and 2435 are designed for those students majoring or minoring in physics and for pre-engineering students. Prerequisites: Physics 1410 and Mathematics 1317.

**1430 (PHYS 2425) Mechanics and Heat. (3-3)** This course is the first course of a three semester sequence (including Physics 2425 and 2435). It is designed to cover the basic laws and principles of mechanics and heat through analytic problem-solving. Corequisite: Mathematics 2471. Credit for both Physics 1410 and 1430 cannot be given.

**2425 (PHYS 2426) Electricity and Magnetism. (3-3)** A study of the field of electricity and magnetism for physics majors and minors. Prerequisite: Physics 1430. Corequisite Mathematics 2472. Credit in both Physics 1420 and 2425 cannot be given.

**2435 (PHYS 2427) Waves and Modern Physics (3-3)** A study of the fields of wave motion, sound, light and modern physics at a beginning level for physics majors and minors. Prerequisite: Mathematics 2472 and Physics 2425. Co-requisite: Mathematics 3373.

**3301 Musical Acoustics. (3-0)** A survey of the physics of sound and acoustic measurement. Special emphasis will be placed on sound production, propagation, and perception as applied to music. Prerequisites: Physics 1410 and 1420 or equivalent.

**3312 Modern Physics. (3-0)** An introduction to the foundations of modern physics, including the following topics: relativistic mechanics, kinetic theory of matter, quantization of charge, light and energy, the atom, wave nature of particles, and the Schrodinger equation. Prerequisites: Physics 2435.

**3315 Thermodynamics. (3-0)** The fundamental study of thermodynamics and statistical mechanics. Prerequisite: Physics 2435 (or 1420) and Mathematics 3323.

**3316 Applied Electronics. (2-6)** A laboratory/lecture course introducing electronic test bench methods for the construction, operation and analysis of important DC/AC circuits utilizing resistors, capacitors, diodes, BJTs, FETs, Op Amps and analog/digital ICs. Elementary semiconductor device physics and semiconductor device microfabrication methods will be discussed. Prerequisite: Physics 2435 (or Physics 2425 by permission).

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\*See the General Studies section of this catalog.

**3317 Optics. (3-0) A study of geometrical and physical optics. Prerequisites: Physics 2435.**

**3320 Introduction to Mathematical Physics. (3-0)** An introduction to the mathematical methods of theoretical physics with emphasis on the vectorial-functional approach emphasized in current research literature. Applications will be made to certain fundamental problems of mechanics and electromagnetic field theory. Prerequisite: Mathematics 3373. Co-requisite 3323.

**3411 Advanced Physics Laboratory. (2-6)** Experiments in modern physics, with emphasis on demonstrating quantum effects and introducing nuclear physics. Corequisite: Physics 3312.

**3414 Mechanics (4-0)** Fundamentals of classical mechanics focusing on the physical description of the behavior of single and multiple particle systems. Topics include advanced problem-solving strategies for systems with position and velocity-based forces, simple harmonic oscillators, non-inertial reference systems, gravitation and central forces, and rigid body motion. Prerequisites: Physics 2435.

**\*4265 Undergraduate Research. (0-4)** This course is available to undergraduate students only upon the invitation of the department.

**4310 Electromagnetic Field Theory I. (3-0)** An introduction to the electromagnetic field theory of classical physics for static fields. Topics included will be the electrostatic field, polarization and dielectrics, electrostatic energy, magnetic field of steady currents, magnetostatic energy, and magnetic properties of matter. Prerequisite: Physics 3320, Math 3323, and Math 3373 (or equivalent preparation, with consent of the instructor).

**4311 Quantum Physics of Atoms and Solids. (3-0)** Elementary quantum and statistical physics will be applied to develop useful descriptions for solid electronic, magnetic, and superconducting materials. There will be a special emphasis on the operational physics of simple semiconductor materials and devices (i.e., the PN junctions). The description of materials in this course is essential to Physics 4340. Prerequisite: Physics 3312.

**4312 Quantum Mechanics, Part I. (3-0)** An introductory course on quantum mechanics. Topics include concepts and formulation of quantum mechanics. Hamiltonian operator and Schrodinger equation, harmonic oscillator, matrix formulation of quantum mechanics, uncertainty principle, potential barrier problems, and the hydrogen atom. Prerequisites: Mathematics 3323, Physics 3312, 3320 and six additional hours of advanced physics.

**4315 Electromagnetic Field Theory II. (3-0)** An introduction to the electromagnetic field theory of classical physics for time varying fields. Topics included will be electromagnetic induction, time varying electric and magnetic fields, Maxwell's equations, electromagnetic energy, electromagnetic waves and radiation, and a brief introduction to some specialized topics. Prerequisite: Physics 4310.

**\*4320 Selected Study in Physics. (3-0)** Topics are chosen in theoretical and experimental areas of current interest in physics with specific topic to be discussed agreed upon prior to registration. Prerequisite: Approval of the instructor.

**4321 Independent Study in Physics. (0-9)** Topics are chosen in theoretical and/or experimental physics. Specific topic to be discussed and agreed upon prior to registration. Prerequisite: Approval of the instructor.

**4340 Materials Physics Laboratory. (0-9)** A laboratory based course introducing a broad array of materials synthesis and characterization methods. The specific subjects will be coordinated with topics of current interest in the literature and will be chosen by mutual consent of the student and faculty advisor. Prerequisites: Physics 3411, 4311, and 3316.

**For course descriptions and further information about available graduate offerings, please consult the Graduate Catalog.**

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\*May be repeated once with different emphasis and professor for additional credit.

## Courses in Geology (GEOL)

**1410 (GEOL 1403) Physical Geology. (3-2)** The study of materials making up the earth, the processes that act upon them, and the results of these processes; the development of tools for the interpretation of earth's history and structure, and the major geologic concepts.

**1420 (GEOL 1404) Historical Geology. (3-2)** A continuation of physical geology leading to consideration of the geologic history of the earth (with special emphasis on North America), the evolution of life, the continents through geologic time and the principles and procedures used in the interpretation of earth history. Prerequisite: Geology 1410.

**2410 Mineralogy. (3-3)** Study of the crystal systems, physical properties, classification, and hand specimen identification of common rock-forming and ore minerals. Prerequisite: Mathematics 1317 or equivalent and Chemistry 1310 or 1410.

**(WI) 3321 Hydrogeology. (3-0)** Study of hydrologic cycle as it relates to the infiltration and movement on the surface and in rocks. Ground-water as a manageable resource is explored. Prerequisite: Geology 2410.

**3410 Sedimentation and Stratigraphy. (3-3)** Principles of the weathering, transportation, deposition, and lithification of sediments. Primary structures and textures of sediments are used to determine environments of deposition. The recognition and classification of strata into stratigraphic units. Prerequisite: Geology 2410.

**4121 Directed Study. (1-0)** Independent study of a particular subject area in geology. Specific topic to be discussed and agreed upon prior to registration. May be repeated once with different emphasis and professor for additional credit. Prerequisite: approval of the instructor.

**(WI) \*4320 Topics in Field Geology. (1-3)** On-site directed investigations of geology in locations remote from campus. Will be offered at times other than Fall and Spring semesters. Prerequisite: Geology 3410.

**4330 Applied Geology. (1-6)** Application of practical geologic laboratory and field methods to environmental, engineering, and planning projects. Prerequisite: Geology 3410.

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\*May be repeated once with different emphasis and professor for additional credit.



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**Warshauer, Max Leon**, Professor of Mathematics and Director of Math Honors Camp. B.S., University of Chicago; Ph.D., Louisiana State University.

**Watkins, Linette**, Assistant Professor of Chemistry. B.S., Trinity University; Ph.D., University of Notre Dame.

**Wayment, Stanley G.**, Professor and Chair of the Department of Mathematics. B.S., Brigham Young University; M.S., University of Utah; M.S., Stanford University; Ph.D., University of Utah.

**Weathersby, Melvin**, Lecturer of Technology. B.B.A., William Carey College; M.A., St. Mary's University.

**Webb, Frances Odette Mitchum**, Assistant Professor of Music. B.A., Coker College; M.M., Indiana University.

**Webber, Jo Ann**, Professor of Curriculum and Instruction. B.S., M.Ed., Ph.D., The University of Texas at Austin.

**Weinberger, George Martin**, Professor of Political Science. B.A., Temple University; M.P.A., D.P.A., University of Georgia.

**Welborn, Ruth B.**, Professor of Health Administration and Associate Dean of the School of Health Professions. B.S.N., University of Texas Nursing School, Galveston; M.A., University of Texas at San Antonio; Ph.D., Texas A&M University.

**Weller, Eric Corville**, Professor of Art and Design. B.F.A., M.F.A., University of Colorado.

**Welsh, Stewart**, Professor of Mathematics. B.S., University of Strathclyde; Ph.D., University of Glasgow.

**Werner, Patrice H.**, Associate Professor of Curriculum and Instruction. B.S., M.Ed., Ph.D., North Texas State University.

**West, Sandra S.**, Associate Professor in Biology. B.S., M.S., University of Houston, Ph.D., Texas A&M University.

**West, Vicki L.**, Lecturer of Marketing. B.B.A., M.B.A., Georgia College.

**Whalen, Norman Matthew**, Professor of Anthropology. B.A., St. Mary's University; M.A., Ph.D., University of Arizona.

**Whalen, Therese**, Lecturer of Communication Disorders. B.S. in Ed., M.S.C.D.I.S., Southwest Texas State University.

**Whalin, John Robert**, Professor of Music. B.M., Oberlin College; M.M., D.Mus., Indiana University.

**Wharton, Billy J.**, Instructor of Respiratory Care. B.S.H.P., Southwest Texas State University.

**Wheeler, Doreen**, Lecturer of Art and Design. B.A., University of Texas at Austin; J.D., Texas Tech University.

**Wheeler, Larry James**, Professor of Curriculum and Instruction. B.S., Oklahoma State University; M.Ed., Central State University; Ed.D., University of Oklahoma.

**Wheeler, Richard Wade**, Professor of Psychology. B.S., M.A., Ph.D., University of Houston.

**White, Garry**, Instructor of Computer Information Systems. B.A., M.A., St. Mary's University; M.S., Texas A&M University at Corpus Christi; C.N.E., C.D.P., C.S.P., C.C.P.

**Whiteside, Bobby Gene**, Professor of Biology and Director, Aquatic Biology Program. A.S., Eastern Oklahoma A&M College; B.S., M.S., Ph.D., Oklahoma State University.

**Wiley, David Clark**, Associate Professor of Health Education. B.S., M.S., East Texas State University; Ph.D., The University of Texas at Austin.

**Williams, Marvin Lee**, Professor of Speech Communication. B.A., Hardin-Simmons University; M.A., Ph.D., University of Oklahoma.

**Williams, Sue W.**, Professor of Family and Consumer Sciences. B.S., M.S., Ed.D., Oklahoma State University.

**Williams, Tommy Carroll**, Associate Professor of Art and Design. A.A., Lubbock Christian College; B.S., West Texas State University; M.Ed., Ph.D., University of Oklahoma.

**Williamson, Paula Sue**, Associate Professor of Biology. B.S., Southwest Texas State University; M.A., Ph.D., University of California, Santa Barbara.

**Willoughby, J. Michael**, Professor of Educational Administration and Psychological Services and Dean of the Graduate School. B.S., Texas A&M University; M.Ed., Southwest Texas State University; Ed.D., University of Southern Mississippi.

**Wilson, Barbara**, Lecturer of Technology. B.A., Texas Lutheran College; M.Ed., Southwest Texas State University.

**Wilson, James Arthur**, Professor of History. B.A., M.A., Ph.D., University of Arizona.

**Wilson, Miles Scott, Jr.**, Professor of English. B.A., Pomona College; M.F.A., University of Oregon.

**Wilson, Nancy**, Instructor of English. B.A., University of Oklahoma; M.A., Southwest Texas State University.

**Wilson, Ryce Neal**, Professor of Art and Design. B.F.A., M.F.A., The University of Texas at Austin.

**Wilson, Steven Michael**, Associate Professor of English. B.A. in Letters, University of Oklahoma; M.A., Texas Christian University; M.F.A., Wichita State University.

**Wilson, Wilton Leland**, Professor of Marketing. B.B.A., M.S., Texas A&I University; Ph.D., University of Arkansas.

**Windham, Billy Lee**, Associate Professor of Technology. B.S. in Ed., M.A., Southwest Texas State University; Ed.D., Texas A&M University.

**Winek, Gary Joseph**, Professor of Technology. B.S., University of Wisconsin at Stout; M.Ed., Ball State University; Ph.D., University of Maryland.

Winking, Keith R., Associate Professor of Music. B.S., Quincy College; M.M., Southwest Texas State University; D.M.A., The University of Texas at Austin.

Witham, Joan Harmon, Assistant Professor of Curriculum and Instruction. B.S., Indiana State University of Pennsylvania; M.Ed., Salem State College; Ph.D., Purdue University.

Wittrup, Russell J., Assistant Professor of Speech Communication. B.A., M.A., Northern Illinois University.

Wolverton, Byron Adams, Professor of Music. B.Mus., M.A., University of Missouri; Ph.D., Indiana University.

Wolaver, Peggy, Lecturer of Curriculum and Instruction. B.A., Cornell University; M.Ed., Tufts and The Boston Museum School.

Woolsey, Timothy Dwight, Professor of Music. B.A., Trinity; M.M., D.M.A., The University of Texas at Austin.

Workman, Stephen P., Instructor of Military Science. B.S., USMA, West Point.

Worley, Stinson Ezell, Professor of Curriculum and Instruction. B.A., Baylor University; M.Ed., Ed.D., North Texas State University.

Wortham, Marshall Ross, Professor of Art and Design. B.A., The University of Texas at Austin; M.F.A., Cranbrook Academy of Art.

Wright, Loyd Stanley, Professor of Psychology. B.S., University of Houston; M.A., The University of Texas at Austin; Ed.D., University of Illinois.

**Wright, Walter A., Assistant Professor of Political Science. B.A., J.D., University of Houston; LL.M., New York University.**

Wuest, Beth S., Assistant Professor of Family and Consumer Sciences. B.S., North Dakota State University; M.A., Michigan State University; Ph.D., University of Minnesota.

Yager, Billy Joe, Professor of Chemistry. B.S., Southwest Texas State University; M.S., Ph.D., Texas A&M University.

Yeargan, Howard Reig, Associate Professor of Economics. B.S., M.S., Texas A&M University.

Yick, Joseph Kong Sang, Associate Professor of History. B.A., The University of Texas at Austin; M.A., Ph.D., University of California at Santa Barbara.

Zhan, F, Benjamin, Assistant Professor of Geography. B. Eng., Wuhan Technical University, China; M. Sc., ITC, The Netherlands; Ph.D., SUNY at Buffalo.

Zhu, Rui, Instructor of Philosophy. B.A., AnHui University; M.A., Peking University; Ph.D., Tulane University.

Zielinski, Gary M., Lecturer of Mathematics. B.S., M.S., Ball State University.

Zigrossi, Sam J., Instructor of Management. B.S., M.S., University of Utah; M.B.A., Golden Gate University.

## Distinguished Professor Emeritus

Abernathy, Elton, Ph.D., Distinguished Professor of Speech Communication Emeritus (9/1/46-7/15/78).

Avent, Henrietta, D.P.E., Distinguished Professor of Health, Physical Education and Recreation Emeritus (9/1/58-5/31/93).

Barton, James Gabriel, M.A., Distinguished Professor of Speech Communication Emeritus (6/1/46-1/15/80).

Bowles, Ira Renay, Ed.D., Distinguished Professor of Music Emeritus (9/1/47-7/15/86).

Buie, Tollie R., Ed.D., Distinguished Professor of Agriculture Emeritus (9/1/45-7/31/76).

Craddock, Emmie, Ph.D., Distinguished Professor of History Emeritus and Director of the Honors Program (9/1/50-7/15/80).

Farlow, Daniel Edward, M.A., Distinguished Professor of Political Science Emeritus (6/1/59-5/31/89).

Houston, Ralph H., Ph.D., Distinguished Professor of English Emeritus (9/1/37-7/31/78).

Juel, Martin Oliver, Ph.D., Distinguished Professor of Curriculum and Instruction Emeritus (9/1/50-5/31/81).

Kissler, Betty Jane, Ph.D., Distinguished Professor of History Emeritus (9/1/58-8/31/93).

Norris, William Elmore, Ph.D., Distinguished Professor of Biology Emeritus and Dean of the University (9/1/49-8/31/82).

Rogers, J. Lloyd, Ph.D., Distinguished Professor of Education Emeritus and Dean of the School of Education (6/1/36-8/31/73).

Smith, Milton L., Jr., Ph.D., Distinguished Professor of Educational Administration Emeritus (9/1/77-1/15/90).

Swinney, Everette, Ph.D., Distinguished Professor of History Emeritus (9/1/57-7/15/96).

Watts, Robert W., Ph.D., Distinguished Professor of English Emeritus (9/1/59-5/31/87).

Zedler, Empress Young, Ph.D., Distinguished Professor of Special Education Emeritus (3/1/48-8/31/79).

## Professor Emeritus

Abrahamson, Royce L., Ph.D., Professor of Management (9/1/65-8/31/96).

Anderson, Robert Ernest, Ph.D., Professor of Physics (9/1/66-7/31/91).

Ballard, John Roger, Ed.D., Professor of Technology (9/1/56-7/31/83).

Bennett, Roger E., Ph.D., Professor of Mass Communication and Chair of the Department of Mass Communication (7/16/79-8/31/96).

Bishop, Bill J., Ph.D., Professor of Accounting (9/1/71-1/15/90).

Bland, Randall W., Ph.D., Professor of Political Science (9/1/67-5/31/95).

Bowers, Victor Lee, Ph.D., Professor of Technology (9/1/45-8/31/75).

Brown, William, Ed.D., Professor of Counseling and Guidance (7/15/58-7/31/86).

Bynum, James L., Ed.D., Professor of Curriculum and Instruction (9/1/69-1/31/93).

Calsbeek, Franklin, Ed.D., Professor of Health, Physical Education and Recreation (9/1/74-8/31/95).

Conoley, Colleen W., Ph.D., Professor of Counseling and Guidance (9/1/66-8/31/91).

Corrie, Walter Samuel, Ph.D., Professor of Sociology (9/1/66-5/31/91).

Edwards, Sidney, Ph.D., Professor of Biology (9/1/64-5/31/85).

Elliott, James Denton, Ph.D., Professor of Agriculture (9/1/52-5/31/81).

Galvan, Roberto Arispe, Ph.D., Professor of Modern Languages (6/1/64-7/15/83).

Good, Elmer Leon, Ph.D., Professor of Agriculture (8/1/77-5/31/88).

Green, Donald C., Ph.D., Professor of Respiratory Care and Dean of the School of Health Professions (9/1/65-8/31/92).

Ham, Harry Candidus (Harry Wayne), M.M., Professor of Music (9/1/63-5/31/86).

Hannan, Herbert Herrick, Ph.D., Professor of Biology (9/1/60-8/31/89).

Hardesty, Walton D., Ed.D., Professor of Psychology (9/1/67-8/31/82).

Harrel, John Ralph, Ed.D., Professor of Music (7/1/68-7/15/88).

Harrelson, Donald Biggerstaff, M.B.A., Professor of Criminal Justice (1/16/71-1/31/87).

Hayes, Elizabeth Gentry, Ph.D., Professor of English (7/11/64-8/31/80).

Hefner, Robert Lee, Ph.D., Professor of Educational Administration and Psychological Services (9/1/71-1/31/92).

Hellman, Allen D., Ph.D., Professor of Geography and Planning (9/1/66-8/31/84).

Henderson, Richard Bevier, Ph.D., Professor of Political Science (6/1/49-5/31/84).

Herkimer, Jr., Allen G., Ed.D., Professor of Health Administration (9/1/86-5/31/96).

Hudson, Gertrude Reese, Ph.D., Professor of English (9/1/63-8/31/70).

Jager, Ronald Burke, Ph.D., Professor of History (9/1/67-5/31/93).

Johnston, Marvin Autry, Ph.D., Professor of Computer Information Systems and Administrative Sciences (9/1/71-8/1/90).

Keck, Theodore F., Ph.D., Professor and Chair of the Department of Health, Physical Education and Recreation (9/1/70-8/31/89).

Kolbe, William D., M.S.A.E., Professor of Art (7/10/64-5/31/92).

Lynch, Vernon Eugene, Ph.D., Professor of English (9/1/63-1/31/80).

Marlow, Foster Leroy, D.Ed., Professor of Art (9/1/68-1/15/91).

McClung, Harry B., Ph.D., Professor of Mathematics (9/1/77-1/15/97).

McDaniel, Elizabeth, Ph.D., Professor of Educational Administration and Psychological Services (9/1/69-1/31/86).

McEwen, Henry Nylon, Ph.D., Professor of Mathematics (9/1/60-8/31/83).

**Miller, Damon J.**, Ph.D., Professor of Educational Administration and Psychological Services (9/1/67-8/31/95).  
**Miller, Roy V.**, Ph.D., Professor of Agriculture (1/15/74-8/31/96).  
**Moore, Betty J.**, Ph.D., Professor of Curriculum and Instruction (9/1/73-5/31/89).  
**Morgan, Celia A.**, Ph.D., Professor of Economics and Chair of the Department of Finance and Economics (9/1/71-1/15/94).  
**Newsom, Rollo K.**, Ph.D., Professor of Sociology (9/1/66-8/31/96).  
**Norwood, Patrick Henry**, Ph.D., Professor of Education (9/1/55-8/31/73).  
**Oles, Henry J.**, Ph.D., Professor of Psychology (9/1/71-1/15/92).  
**Reeves-Marquardt, Dona**, Ph.D., Professor of Modern Languages (9/1/61-5/31/94).  
**Sawyers, Phyllis O.**, M.A., Professor of Art (9/1/62-5/31/92).  
**Schultz, Clarence Carven**, Ph.D., Professor of Sociology (9/1/65-7/31/90).  
**Shields, Mayron**, Ed.D., Professor of Management and Marketing (9/1/67-8/31/77).  
**Sissom, Stanley L.**, Ph.D., Professor of Biology (9/1/67-1/15/97).  
**Smith, Jean Amelia**, D.P.E., Professor of Health, Physical Education and Recreation (9/1/53-1/31/84).  
**Sparks, Rebecca Lewis**, Ed.D., Professor of Curriculum and Instruction (9/1/70-1/15/86).  
**Stevens, Paul L.**, Ph.D., Professor of Educational Administration and Psychological Services (9/1/67-8/31/87).  
**Stevenson, Robert M.**, D.B.A. Visiting Professor of Finance and Economics (9/1/69-5/31/90).  
**Taylor, Mary Agnes**, M.A., Professor of English (9/1/67-5/31/91).  
**Whitenberg, David Calvin**, **Ph.D., Professor of Biology (9/1/65-7/31/93)**.  
**Williamson, Bobby L.**, Ed.D., Professor of Curriculum and Instruction (9/1/66-5/31/93).  
**Willms, Charles R.**, Ph.D., Professor of Chemistry (9/1/59-5/31/97).  
**Wilson, Wilton Leland**, Ph.D., Professor of Marketing (7/15/59-8/31/90).  
**Worley, Stinson E.**, Ed.D., Professor of Curriculum and Instruction (9/1/66-8/31/96).  
**Yeary, James D.**, Ph.D., Professor of Accounting (9/1/74-1/15/95).  
**Young, Ione Dodson**, Ph.D., Professor of English (9/1/55-5/31/73).  
**Young, Willard C.**, Ph.D., Professor of Biology (9/1/67-5/31/90).  
**Zunker, Vernon G.**, Ed.D., Professor of Education (9/1/68-8/31/92).

## Associate Professor Emeritus

**Akin, William Carroll**, M.A., Associate Professor of Mathematics (9/1/56-5/31/80).  
**Allen, Joe Earl**, M.A., Associate Professor of Education (9/1/54-8/31/71).  
**Beck, Shirley S.**, Ed.D., Associate Professor of Curriculum and Instruction (1/16/87-5/31/97).  
**Blythe, Hal T.**, Ph.D., Associate Professor of Curriculum and Instruction (9/1/68-8/31/88).  
**Born, Alfred Ervin**, Ph.D., Associate Professor of Mathematics (1/15/65-1/31/93).  
**Brieger, Alton Gerhardt**, M.A., Associate Professor of History (7/1/64-8/31/85).  
**Brennen, E. Ardelia**, M.S.W., Associate Professor of Allied Health Sciences (9/1/70-8/31/88).  
**Brooks, Alta R.**, Ph.D., Associate Professor of Allied Health Sciences (9/1/68-5/31/94).  
**Champagne, Gerald B.**, M.S., Associate Professor of Agriculture (9/1/55-7/15/84).  
**Coleman, Frances Gibson**, M.A., Associate Professor of Home Economics (9/1/44-8/31/75).  
**Conley, Francis Albert**, D.D.S., Associate Professor of Health Administration (9/1/75-8/31/85).  
**Cude, Willis Augustus, Jr.**, Ph.D., Associate Professor of Chemistry (9/1/63-1/15/87).  
**Davis, Richard L.**, Ph.D., Associate Professor of Modern Languages (9/1/65-5/31/84).  
**Davis, William King**, M.A., Associate Professor of Biology (9/1/48-7/31/79).  
**Flemming, David G.**, M.A., Associate Professor of Theatre Arts (9/1/70-5/31/96).  
**Fry, Morris Aaron**, M.S., Associate Professor of Mathematics (9/1/60-8/31/76).  
**Gaddis, Marilyn T.**, Ph.D., Associate Professor of Curriculum and Instruction (9/1/78 - 8/31/94).  
**Hardin, Dale, J.D.**, Associate Professor of Political Science (9/1/77-7/31/92).  
**Harrell, James Nelson**, M.A., Associate Professor of Speech Communication (9/1/70-8/31/90).  
**Helm, Raymond**, Ph.D., Associate Professor of Agriculture (9/1/67-8/31/85).  
**Henry, William Gammon, Jr.**, Ph.D., Associate Professor of Curriculum and Instruction (9/1/67-5/31/90).  
**Hughes, Billie E.**, Ed.D., Associate Professor of Counseling and Guidance (9/1/67-8/31/87).  
**Hunter, Mary Buchanan**, M.A., Associate Professor of Music (9/1/41-5/31/68).  
**Lee, Orland S.**, Ph.D., Associate Professor of Accounting (9/1/79-1/15/94).  
**Manford, LaRue C.**, Ph.D., Associate Professor of Family and Consumer Sciences (9/1/75-5/31/97).  
**Medford, Floyd Chester**, Ph.D., Associate Professor of English (9/1/67-7/15/87).  
**Newberry, William C.**, Ed.D., Associate Professor of Curriculum and Instruction (9/1/66-1/15/97).  
**O'Connell, John J.**, Ph.D., Associate Professor of Sociology (9/1/71-5/31/97).  
**Reese, Otis G.**, M.B.A., Associate Professor of Accounting (9/1/56-1/15/90).  
**Reynolds, Martha H.**, Ph.D., Associate Professor of Music (9/1/67-8/31/93).  
**Scott, Charlotte Robinson**, Ph.D., Associate Professor of Health, Physical Education and Recreation (9/1/68-1/31/91).  
**Spear, Arthur Walsh**, M.A., Associate Professor of Physics (9/1/56-8/31/84).  
**Starling, Betty Ross Jones**, Ph.D., Associate Professor of English (9/1/67-1/15/94).  
**Swinton, Marilyn M.**, Ph.D., Associate Professor of Speech Communication (9/1/78-5/31/95).  
**Waterbury, Olga Dominquez**, M.Ed., Associate Professor of Curriculum and Instruction (9/1/61-5/31/81).  
**Winfield, Darwin Eugene**, M.S.H.A., Associate Professor of Health Administration (9/1/73-8/31/90).  
**Wright, Betty Lee**, Ed.D., Associate Professor of Health, Physical Education and Recreation (9/1/69-8/31/85).  
**Yeargan, Howard R.**, M.S., Associate Professor of Finance and Economics (9/1/67-7/31/93).

## Assistant Professor Emeritus

Archer, Benjamin Francis, M.A.T., Assistant Professor of English (9/1/57-7/31/93).  
Braftett, Joe Max, M.A., Assistant Professor of English (9/1/62-5/31/97).  
Broxton, Cleo Cook, M.Ed., Assistant Professor of Health, Physical Education and Recreation (9/1/59-8/31/77).  
Cogdill, Alvin Benson, M.Ed., Assistant Professor of Education (9/1/67-7/31/81).  
English, Ferd B., M.B.A., Assistant Professor of Finance and Economics (9/1/70-5/31/88).  
Evans, Kenneth A., M.A., Assistant Professor of Mathematics (9/1/67-8/31/96).  
Farley, John Walraven, Jr., M.B.A., Assistant Professor of Management and Marketing (9/1/70-8/31/92).  
Finch, Catherine Howard, M.Ed., Assistant Professor of Computer Information Systems and Administrative Sciences (9/1/53-5/31/82).  
Goldsmith, James M., M.Ed., Assistant Professor of Technology (2/1/73-5/31/97).  
Hastedt, Laura W., M.B.Ed., Assistant Professor of Computer Information Systems and Administrative Sciences (9/1/57-1/15/85).  
Heudier, Jean-Pierre, Ph.D., Assistant Professor of Modern Languages (9/10/72-5/31/96).  
Hopson, John Wilbur, M.A., Assistant Professor of Chemistry (9/1/53-8/31/81).  
Lann, Arlene Wills, M.B.A., Assistant Professor of Computer Information Systems and Administrative Sciences (9/1/58-1/31/82).  
Laws, Luba S., M.A., Assistant Professor of Modern Languages (9/1/62-5/31/94).  
Lowman, Robert Glen, M.A., Assistant Professor of Chemistry (9/1/56-8/31/79).  
McDonald, Vernon Shinn, M.Ed., Assistant Professor of Health, Physical Education and Recreation and Assistant Athletic Director (9/1/53-5/31/88).  
Miller, Billy M., M.Ed., Assistant Professor of Health, Physical Education and Recreation and Director of Athletics (2/1/61-1/31/92).  
Reeh, Albert F., M.Ed., Assistant Professor of Health, Physical Education and Recreation (9/1/60-5/31/91).  
Tolbert, Evelyn Osman, M.A., Assistant Professor of English (9/1/70-5/31/93).  
Treanor, James, M.A., Assistant Professor of Philosophy (9/1/67-5/31/95).  
Yarchuska, John A., M.Ed., Assistant Professor of Technology (2/1/53-6/30/92).

## Instructor Emeritus

Brown, Doris Daisy, M.A., Instructor of Home Economics (9/1/53-5/31/74).  
McGee, Thomas, M.A., Instructor of Counseling Center/Guidance Counseling (9/1/71-8/31/86).

## Retired Faculty

Becker, Selden G., M.Ed., Instructor of Technology (1/15/74-7/15/82).  
Belchic, Albert M., M.S., Assistant Professor of Health Administration (1/16/75-1/31/90).  
Brunson, Martha Luan, Ph.D., Professor of English and Associate Dean of the School of Liberal Arts (9/1/67-7/15/98).  
Buckley, Frank Wilson, Ph.D., Professor of Mass Communication (9/1/67-1/31/80).  
Cates, Jerome Curtis, M.B.A., Professor of Accounting and Computer Science and Vice President for Fiscal Affairs (10/1/50-8/31/80).  
Cook, Richard C., M.S.I.S., Lecturer of Occupational Education (9/1/77-8/31/92).  
Daggett, Marsha Lea, Ph.D., Assistant Professor of Home Economics (9/1/72-2/29/76).  
Dibrell, William H., M.Ed., Assistant Professor of Speech Communication (9/1/67-8/31/86).  
Donohoe, L. Joyce, M.S., Instructor of Mathematics (1/16/87-8/31/92).  
Dorrcott, Joyce W., M.A., Lecturer of Political Science (9/1/77-5/31/94).  
Fitch, Suzanne P., M.A., Associate Professor of Speech Communication (9/1/67-1/15/98).  
Flores, David R., M.A., Lecturer of Criminal Justice (9/1/78-8/31/91).  
Garber, David Lee, D.S.W., Assistant Professor of Social Work (9/1/88-5/31/96).  
Godwin, Maxwell Paul, M.B.A., Lecturer of Accounting (9/1/78-1/15/93).  
Hammond, Dicky E., Ed.D., Professor of Curriculum and Instruction (7/15/80-11/30/97).  
Haney, Lois May, M.A., Assistant Professor of English (9/1/70-1/31/80).  
Hannon, Daniel L., Ph.D., Professor of Theatre (9/1/81-5/13/98).  
Harp, Mary Wanda, Ph.D., Professor and Chair of the Department of Home Economics (7/1/71-1/31/80).  
Hickman, Elmer J., M.B.A., Assistant Professor of Accounting (9/1/78-8/31/93).  
Hoffmann, Keith F., Ed.D., Associate Professor of Physical Education (9/1/63-5/31/98).  
Hughes, Mamie L., M.A., Lecturer of Health, Physical Education and Recreation (9/1/75-7/31/91).  
Johnson, Herbert E., Ph.D., Lecturer of Finance and Economics (1/1/82-5/31/84).  
Jorgenson, Christabel B., Ph.D., Professor of Educational Administration and Psychological Services (9/1/76-7/15/98).  
Kopecky, Helen P., Ph.D., Lecturer of Finance and Economics (8/1/81-5/31/85).  
Martine, Floyd Leonard, M.Ed., Associate Professor of Education (7/14/59-8/31/81).  
Menard, Joe J., Lecturer of Mass Communication (2/28/78-2/28/93).  
Mitchell, Nan Jones, M.Ed., Instructor of Finance and Economics (1/15/63-5/31/73).  
Moore, Howard L., M.A., Instructor of Finance and Economics (9/1/63-5/31/73).  
Moore, Joe M., Ed.D., Associate Professor of Curriculum and Instruction (9/1/68-1/15/98).  
Murphy, Maxwell C., Ph.D., Lecturer of Criminal Justice (1/16/88-5/31/95).  
Noone, John B., M.H.A., Assistant Professor of Health Administration (8/23/76-7/31/94).  
Nuhn, Benjamin R., B.J., Lecturer of Mass Communication (9/1/76-7/16/86).  
Perry, Robert C., Ph.D., Lecturer of Modern Languages (9/1/79-8/31/95).  
Pulver, Robert E., M.B.A., Assistant Professor of Mass Communication (9/1/88-5/31/94).  
Ruiz, Maria Paez de, Ph.D., Professor of Modern Languages (5/10/78-1/15/98).  
Scow, Roger D., M.S., Lecturer in Management (9/1/83-5/31/97).  
Smith, James D., M.A., Lecturer of Criminal Justice (9/1/75-9/1/88).  
Stalnaker, Sylvia D., Ph.D., Associate Professor of Family and Consumer Sciences (1/15/73-1/15/98).  
Stephens, James Louise, M.A., Instructor of Education (1/16/71-5/31/73).  
Till, Leon G., M.S., Lecturer in Management (1/16/87-5/31/97).  
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## KEY SWT INTERNET ADDRESSES

Southwest Texas State University	<a href="http://www.swt.edu">http://www.swt.edu</a>
Admissions	<a href="http://www.admissions.swt.edu">http://www.admissions.swt.edu</a>
Albert B. Alkek Library	<a href="http://www.library.swt.edu">http://www.library.swt.edu</a>
Applied Arts & Technology, School of applied_arts	<a href="http://www.swt.edu/acad_depts/">http://www.swt.edu/acad_depts/</a>
Business, School of	<a href="http://www.business.swt.edu">http://www.business.swt.edu</a>
Catalog, Graduate gradcat.htm	<a href="http://www.gradschool.swt.edu/">http://www.gradschool.swt.edu/</a>
Catalog, Ph.D. in Geography dphdcat.htm	<a href="http://www.gradschool.swt.edu/">http://www.gradschool.swt.edu/</a>
Catalog, Undergraduate	<a href="http://www.swt.edu/swtpubs/ug_cat/">http://www.swt.edu/swtpubs/ug_cat/</a>
Class Schedule	<a href="http://www.swt.edu/catsweb/rg/soc.htm">http://www.swt.edu/catsweb/rg/soc.htm</a>
Disability Services	<a href="http://www.vpsa.swt.edu/ods">http://www.vpsa.swt.edu/ods</a>
Education, School of Soe.html	<a href="http://www.schooledu.swt.edu/SWT">http://www.schooledu.swt.edu/SWT</a>
Financial Aid	<a href="http://www.finaid.swt.edu">http://www.finaid.swt.edu</a>
Fine Arts & Communication, School of	<a href="http://www.finearts.swt.edu/finearts.html">http://www.finearts.swt.edu/finearts.html</a>
General Studies, College of studies/index.html	<a href="http://www.swt.edu/acad_depts/gen_">http://www.swt.edu/acad_depts/gen_</a>
HealthProfessions, School of	<a href="http://www.health@samson.swt.edu">http://www.health@samson.swt.edu</a>
Liberal Arts, School of liberal_arts.html	<a href="http://www.swt.edu/acad_depts/">http://www.swt.edu/acad_depts/</a>
Residence Life	<a href="http://www.reslife.swt.edu">http://www.reslife.swt.edu</a>
Science, School of science.html	<a href="http://www.swt.edu/acad_depts/">http://www.swt.edu/acad_depts/</a>

## NOTES

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