Smart Pen Technology as an Intervention in Calculus

Jake Hammons
Mathematics Department, Texas State University

2:00 pm in Derr 237
October 18, 2013

Abstract: Research indicates that calculus is a roadblock mathematics course for many students who wish to earn any of a number of different degrees for which calculus is required. Among the many reasons researchers have found which contribute to student difficulties are access to the instructor and a breakdown of the attempt-feedback-reattempt loop (Zerr, 2007). In this talk, I will present my ongoing research intervention of incorporating smart pen technology into the curriculum. I devised this intervention to address the issues described above within a Business Calculus course. I will also discuss two technology tools I am using to help in the analysis of my research: Site Stats, and NVIVO.

Jake Hammons is a Doctoral Candidate in the Mathematics Education PhD program at Texas State University. He received a B.S. in Physics from Sam Houston State University and is a Texas Certified Teacher in Science and Mathematics 4-8 and Physics and Mathematics 8-12 with five years of experience teaching in Texas Public Schools.