THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

Course #: MATH 3320
Course Title: Probability and Statistics for Math Educators
Credit Hrs: 3
Term: Spring 2015
Course Meetings & Location: TBD
Prerequisite Courses: MATH 1312; Calculus II
Course Fee: (if applicable) NA
Instructor: Amy Wagler
Office Location: Bell Hall 311
Contact Info: 744-6847
Phone #
awagler2@utep.edu
E-mail address
744-6502
Fax #
Emergency Contact
Office Hrs: TBD ; or by appt.
Textbook(s), Materials:
Required: Opentext TBD
Suggested: none

Course Objectives (Learning Outcomes): Introduces students to probability and statistics applicable to mathematics majors planning a teaching career. By the end of this course, students should be able to read a word problem, realize the uncertainty that is involved in a situation described, select a suitable probability model, estimate and test its parameters on the basis of real data, compute probabilities of interesting events, and make appropriate conclusions.

This course covers theory and applications of probability models, random variables, discrete and continuous probability distributions, joint and conditional distributions, sampling distributions, central limit theorem, hypothesis testing, confidence intervals, and exposure to simple linear regression.

Course Activities/Assignments: Each class period will have in-class work completed within the period. Additionally, out of class homework assignments are given. A semester long project, mid-terms and a final exam will also assess learning.

Assessment of Course Objectives: Homework assignments will be graded for completion and accuracy. A grading rubric will be used for the semester project. Daily in-class assignments are graded for completeness only.
Course Schedule: Note that exam dates are approximate and are subject to change

Week 1: Introduction to Data
Week 2: Probability
Week 3: Probability
Week 4: Probability
Week 5: Distributions
Week 6: Distributions; Exam 1
Week 7: Distributions
Week 8: Distributions and Inference
Week 9: Numerical Inference
Week 10: Numerical Inference; Exam 2
Week 11: Inference
Week 12: Inference
Week 13: Topics in Inference/Regression
Week 14: Regression

Final Exam during finals week

February 5- Class Census Day. If a student drops before the census date, neither the course nor a grade will appear on the student’s academic record. This is the last day to drop without a W.

April 4- Course Drop Deadline

May 11-15- Finals Week. Final exam 5/13 at 4:00-6:45.

Grading Policy: 5% In-class assignments
20% Final Project
20% Homework
17.5% Exam 1
17.5% Exam 2
20% Final Exam

Make-up Policy: If class is missed for a valid and documented reason, the daily in-class assignments and exams may be made-up for full credit. Check your calendars now for potential conflicts with scheduled class assignments or exams. All other assignments should be turned in on time. If a scheduled homework assignment is late, 10% of the possible credit will be deducted for each day the assignment is not turned in (including weekends).

Attendance Policy: You must attend class to turn in the in-class assignments and weekly homework. Attendance is expected and accommodations will be made only if you are unable to attend class due to illness, family emergency or any other pressing issue.

Academic Integrity Policy: Please see http://academics.utep.edu/Default.aspx?tabid=23785
Civility Statement: This is a class where participation is required. We work problems together as a class and in groups. Participation in the class work is required.

Disability Statement: If a student has or suspects she/he has a disability and needs an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148 or at <dss@utep.edu> or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any DSS accommodation letters and instructions.

Military Statement: If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact me as soon as possible.