

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

Course #: STAT 3320, CRN 24968  
Course Title: Probability and Statistics  
Credit Hrs: 3  
Term: Spring 2017  
Course Meetings & Location: **10:30 am - 11:50 am, TR - Liberal Arts Building 304**  
Prerequisite Courses: MATH 1312; Calculus II  
Course Fee: (if applicable) NA  
Instructor: Desmond Koomson  
Office Location: Bell Hall, 215  
Contact Info: -  
[dkoomson@utep.edu](mailto:dkoomson@utep.edu)  
915-747-6502 (Math Dept.)  
915-747-5761 (Math Dept.)  
Office Hrs: **TR, 1:00 pm - 2:30 pm ; or by appt.**  
Textbook(s), Materials: Required: Probability and Statistics for Engineering and the Sciences, 8<sup>th</sup> ed. (etext with WebAssign or hardcopy text with WebAssign)

Phone #  
E-mail address  
Fax #  
Emergency Contact:

YOU WILL NEED TO BUY  
YOUR OWN TEXTBOOK IF  
YOU ONLY BUY THE  
HOMEWORK ONLINE  
ACCESS!

[Devore, Probability and Statistics for Engineering and the Sciences, 8/e](#)

Homework and ebook access  
-There is not separate package that does not include the e-book when you select the 8th edition in WebAssign.

THIS DOES NOT INCLUDE A  
HARDCOPY OF A TEXT, BUT  
AN ETEXT INSTEAD!

Drop Date: **Thursday, 30<sup>th</sup> Mar 2017**

After the drop date, you can be dropped only with an F. No exceptions. The instructor will not grant a W after the drop date.

Spring Break: No Class  
Cesar Chavez Holiday: No Class

13<sup>th</sup> – 17<sup>th</sup> Mar 2017  
Friday, 31 Mar 2017

Course Objectives (Learning Outcomes): Introduces students to probability and statistics applicable to research in the sciences and engineering areas. 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. Time to failure probability models are considered.

Course Activities/Assignments: Each class period may 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: Descriptive Statistics

Week 2: Descriptive Statistics

Week 3: Probability

Week 4: Discrete Random Variables

Week 5: Discrete Random Variables

Week 6: Continuous Random Variables

Week 7: Continuous Random Variables; **Exam 1(TBA)**

Week 8: Introduction to Statistics

Week 9: Introduction to Statistics

Week 10: Introduction to Statistics;

Statistical Inference; **Exam 2 (TBA)**

Week 11: Statistical Inference – Confidence intervals

Week 12: Statistical Inference – Hypothesis testing

Week 13: Topics in Statistical Inference/Regression

Week 14: Regression

**Thursday, May 11th 10:00 am – 12:45 pm (Final Exam)**

Grading Policy: 5% Attendance (100%)  
20% Final Project (**Submitted before Finals Week**)  
15% Homework  
10% Quizzes  
15% Exam 1  
15% Exam 2  
20% Final Exam

**No extra credit or extra work will be given for an individual.**

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:** The University policy is that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Each student is responsible for notice of and compliance with the provisions of the Regents' Rules and Regulations, which are available for inspection electronically at <http://www.utsystem.edu/bor/rules/homepage.htm>

All students are expected and required to obey the law, to comply with the Regents' Rules and Regulations, with System and University rules, with directives issued by an administrative official in the course of his or her authorized duties, and to observe standards of conduct appropriate for the University. A student who enrolls at the University is charged with the obligation to conduct himself/herself in a manner compatible with the University's function as an educational institution.

Any student who engages in conduct that is prohibited by Regents' Rules and Regulations, U. T. System or University rules, specific instructions issued by an administrative official or by federal, state, or local laws is subject to discipline, whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct.

**Civility Statement:** Calculators may not be shared during quizzes and exams. Please do not use cell phones, pagers, iPods, MP3 players, blue tooth devices, etc. during class. Cell phones and pagers should be set to silent or vibrate, and any calls should be taken outside of class. Please do not wear headsets or blue tooth devices during class. Please don't talk in class. Cell phone calculators may not be used on quizzes or exams. Active participation in class is expected, teamwork in class will be implemented.

**Disability Statement:** If a student has or suspects she/he has a disability and needs an accommodation, he/she should contact The Center for Accommodations and Support services (CASS) at 747-5148 or at <cass@utep.edu> or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any CASS 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.