

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

Course #: STAT 3320, CRN 15241
Course Title: Probability and Statistics
Credit Hrs: 3
Term: Fall 2016
Course Meetings & Location: **1:30 pm - 2:50 pm, TR - EDUC 309**
Prerequisite Courses: MATH 1312; Calculus II
Course Fee: (if applicable) NA
Instructor: Desmond Koomson
Office Location: Bell Hall, 215
Contact Info: TBA
dkoomson@miners.utep.edu
Phone #
E-mail address
Fax #
Emergency Contact
Office Hrs: **Thursday, 3:00 pm - 5:00 pm ; or by appt.**
Textbook(s), Materials: Required: Probability and Statistics for Engineering and the Sciences, 8th ed. (etext with WebAssign or hardcopy text with WebAssign)

YOU WILL NEED TO BUY
YOUR OWN TEXTBOOK IF
YOU ONLY BUY THE
HOMEWORK 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 **Friday, October 28, 2016**

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.

Course Objectives (Learning Outcomes): Introduces students to probability and statistics applicable to research in computer science. 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 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: 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**

Week 8: Introduction to Statistics

Week 9: Introduction to Statistics

Week 10: Introduction to Statistics; Statistical Inference; **Exam 2**

Week 11: Statistical Inference – Confidence intervals

Week 12: Statistical Inference – Hypothesis testing

Week 13: Topics in Statistical Inference/Regression

Week 14: Regression

Thursday, Dec 8th 1:00 pm – 3:45 pm

Grading Policy: 5% In-class assignments
30% Final Project (**Submitted before Finals Week**)
15% Homework
15% Exam 1
15% 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.