

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
Department of Mathematical Sciences

- Course Number: STAT 3320 (CRN 17792)
Course Title: Probability and Statistics
Credit Hours: 3
Term: Fall 2019
Course Meetings/Location: 1:30 pm - 2:50 pm TR; Liberal Arts Building 207
Prerequisite Courses: MATH 1312 or MATH 2313 or MATH 2326 (with C or better)
Instructors: Ming-Ying Leung
Office Location: Bell Hall 225
Contact Info: Phone: 747-6836
E-mail: mleung@utep.edu
Fax: 747-6502
Website: <http://www.math.utep.edu/Faculty/mleung>
Office Hours: Dr. Leung will post her office hours for each week on her website
Textbook: *Probability and Statistics for Engineering and the Sciences, 9th Edit.*,
by Jay L. Devore
Course Objectives: To introduce probability and statistics so that the 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.
Activities/Assignments: Attendance at lectures is required, and active participation in class discussions is highly encouraged. Homework will be assigned throughout the semester. You may work on the exercises with your fellow students, but each student must answer the questions individually. ZERO grades will be obtained for those whose solutions are the exact copies of someone else's. NO LATE HOMEWORK WILL BE ACCEPTED
Assessment of Objectives: Homework and exams
Course Schedule: This course covers the 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 and time-to-failure probability models.
Chapter 1: Overview and Descriptive Statistics
Chapter 2: Probability
Chapter 3: Discrete Random Variables & Probability Distributions
Chapter 4: Continuous Random Variables & Probability Distributions
Chapter 6: Point Estimation
Chapter 7: Statistical Intervals Based on a Single Sample
Chapter 8: Tests of Hypotheses Based on a Single Sample
Chapter 9: Inferences Based on Two Samples
Chapter 12: Simple Linear Regression and Correlation

- Grading Policy:** Homework: 30% (Due in class every Thursday except on exam dates)
Exam 1: 20% (In class on Thursday September 26)
Exam 2: 20% (In class on Thursday October 31)
Final: 30% (Thursday December 12, 1 – 3:45 p.m.)
The final grade is based on a scale of 90-100 = A, 80-89 = B, 70-79 = C, 60-69 = D, below 60 = F. Attendance and class participation will be used to help decide borderline grades.
- Make-up Policy:** IF you notify the instructor BEFORE the exam AND have a university excuse for missing the exam, you may take the make-up exam arranged by the instructor.
- Attendance Policy:** Class attendance is required and noted at the beginning of class; more than two unexcused absences will result in an instructor-initiated drop or final grade reduction. .
- Academic Integrity Policy:** Violations of academic integrity, including unauthorized submission of work performed by others, will be pursued vigorously to result in the most severe sanctions. Please refer to UTEP's policy cited in sa.utep.edu/osccr/academic-integrity.
- Civility Statement:** No text messaging in class. Please silence cell phones before coming to class. Students are expected to actively participate in class discussions and group activities. Group work that is not completed in class is to be finished as homework, so use the class time wisely by staying focused on the class topic and avoiding chit-chat.
- 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, email 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 as soon as possible.