

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

Course Number: STAT 3320 (CRN 36379)
Course Title: Probability and Statistics
Credit Hours: 3
Term: Summer 2 2020
Course Meetings/Location: Tuesday and Thursday 1PM-3PM (Online)
Prerequisite Courses: MATH 1312 or MATH 2313 or MATH 2326 (with C or better)
Instructors: Suneel Babu Chatla
Office Location:
Contact Info: Phone: (915) 747 5761 (Math Dept.)
E-mail: sbchatla@utep.edu

Office Hours: Tuesday and Thursday after the class or by appointment
Textbook: *Probability and Statistics for Engineering and the Sciences, 9th Edit.*, by Jay L. Devore (Homework and ebook access -There is no separate package that does not include the e-book when you select the 9th/8th edition in WebAssign.)

WebAssign Class Key: **utep 4552 1119**

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: All instructions will be ONLINE. Additionally, out of class homework Assignments are given. A semester inclusive of **homeworks, mid-terms** and a **final exam** will assess learning.

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
Chapter 14: Chi-Square Tests.

Grading Policy: Homework: 25%
Exam 1: 15% (Due July 15)
Exam 2: 15% (Due July 22)
Exam 3: 15% (Due July 29)

Final: 30% (Friday, Aug 3, 1:00PM-3:45PM)

The final grade is based on a scale of 90-100 = A, 80-89 = B, 70-79 = C, 60-69 = D, below 60 = F. Class participation will be used to help decide borderline grades.

Attendance Policy: Meetings are **ALL ONLINE** with recorded lectures posted on **BLACKBOARD**. **Students are expected to watch videos, read textbook and lecture notes provided in advance before attempting assignments.**

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.

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: 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.