

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

Course #: STAT 3320, CRN 33861
Course Title: Probability and Statistics
Credit Hrs: 3
Term: Summer 2020
Course Meetings & Location: **9:20 am - 11:30 am MTWRF - ONLINE**
Prerequisite Courses: MATH 1312; Calculus II
Course Fee: (if applicable) NA
Instructor: Desmond Koomson
Office Location: NA
Contact Info: NA
dkoomson@utep.edu
915-747-5761 (Math Dept.)
915-747-5761 (Math Dept.)

Office Hrs: **TR 12:30 pm - 2:30 pm or by appt.**
Textbook(s), Materials: Required:

Phone #
E-mail address
Fax #
Emergency Contact

Probability and Statistics for Engineering and the Sciences, 9th ed. (etext with WebAssign or hardcopy text with WebAssign)

WebAssign Class Key

utep 8972 0030

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

[Devore, Probability and Statistics for Engineering and the Sciences, 9/e](#)

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 HWK Access] THIS DOES NOT INCLUDE A HARDCOPY OF THE TEXT, BUT AN E-TEXT INSTEAD!

Drop Date: **Friday, July 24th**

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.

Other Dates **Census Day**
Final Exams

July 9th
Aug 3rd - Aug 4th (NO CLASS)

Course Objectives (Learning Outcomes): Introduces students to probability and statistics applicable to research in computer science and other sciences. 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, one way analysis of variance, chi-square tests for categorical variables and exposure to simple linear regression. Time to failure probability models are considered.

Course 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 Course Objectives: Homeworks will be graded for completion and accuracy through the **WebAssign** portal. All exams will be administered through **BLACKBOARD**.

Course Schedule: Note that exam dates except **FINALS** are approximate and are subject to change.

Week 1: Descriptive Statistics ([Chapter 1](#))

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Weeks 1 & 2: Probability ([Chapter 2](#))- **Exam 1 (July 15th)**

Week 2: Discrete Random Variables ([Chapter 3](#))

Week 2: Discrete Random Variables ([Chapter 3](#))

Week 2: Continuous Random Variables ([Chapter 4](#))

Week 2: Continuous Random Variables ([Chapter 4](#))- **Exam 2 (July 22nd)**

Week 3: Introduction to Statistics ([Chapter 5](#))

Week 3: Sampling Distributions ([Chapter 5](#)) - **Exam 3 (July 29th)**

Week 3: Introduction to Statistics; Statistical Inference ([Chapters 7&8](#))

Week 4: Statistical Inference – Hypothesis testing (Mean/Proportion) ([Chapters 7&8](#))

Week 4: Statistical Inference – Confidence intervals ([Chapters 7&8](#))

Week 4: One Way ANOVA / Regression ([Chapter 10](#))

Week 4: Chi-Square Tests ([Chapter 14](#))

FINAL - Monday, Aug 3rd 10:00 am – 12:45 pm

Grading Policy: 25% Homework
15% Exam 1
15% Exam 2
15% Exam 3
30% Comprehensive Final Exam

≥ 90 (**A**), 80 to < 90 (**B**), 70 to < 80 (**C**), 60 to < 70 (**D**), < 60 (**F**)

Make-up Policy: If class is missed for a valid and documented reason, the daily class assignments, and exams may be made-up for full credit. **ALL MAKE-UPS will be determined by me, and students should contact me in advance of any missed work, latest by that very day. A MISSED MAKE-UP HOMEWORK OR EXAM WILL RECEIVE NO REASSIGNMENT.** All assignments should be turned in on time. If a scheduled homework assignment is late, a penalty of 20% of the possible credit will be deducted for each day the assignment is not turned in (including weekends). **It is NOT the instructor's responsibility to inform students about material covered/information delivered during a lecture in which the student was absent for a non-documented reason. The instructor will NOT repeat the information delivered on a lecture via e-mails or phone calls or by any other means, on the basis that the lecture was missed.**

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.**

Academic Integrity Policy: Please see <https://www.utep.edu/student-affairs/osccr/>

Civility Statement: Since all instructions will be ONLINE, all students are highly encouraged to stick with the schedule to avoid any backlogs.

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.