

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

Course #: STAT 5380
(CRN 11867)
Course Title: Mathematical Statistics I
Credit Hrs: 3
Term: Fall 2017 (Instruction 08/28/2017 – 12/07/2017)
Course Meetings & Location: Hudspeth Hall 313
3:00-4:20pm MW
Prerequisite Courses: STAT 3330 with a grade of "C" or better, or its equivalent as approved by the instructor.
Instructor: Xiaogang Su
Office Location: Bell Hall 320
Contact Info: Phone: (915) 747-6860 [O]
xsu@utep.edu
Fax: (915) 744-6502
Office Hours: 1:00-2:00pm MW
Class Web page: <https://sites.google.com/site/xgsu00/STAT5380>
Textbook(s), Materials: Required: Casella, G. and Berger, R. L. (2002). *Statistical Inference*, 2nd Edition. Pacific Grove, CA: Duxbury.

Suggested: None.

Course Description and Learning Outcomes: The probabilistic foundations of mathematical statistics. Topics covered: Probability spaces, random variables, univariate and multivariate probability distributions, conditional distributions, expectation, generating functions, multivariate transformations, modes of convergence, and limit theorems. Through assigned homework and class discussions, students will also acquire skills to identify real problems that require advanced mathematical and statistical knowledge.

Course Activities/Assignments: Homework and computer projects will be assigned throughout the semester. You may do the exercises with a partner, but each student must answer the questions individually. Zero grades will be assigned to those whose solutions are the exact copies of someone else's. NO LATE HOMEWORK WILL BE ACCEPTED.

Course Schedule: 09/04 Labor Day
11/03 Course Drop Deadline
11/23 - 11/24 Thanksgiving

Final Exam Schedule: 12/11, Monday 1:00-3:45pm

Grading Policy: Midterm Exams make up 70% (three exams each worth 23.33%) and Final Exam 35%. Note that there is 5% extra credit automatically included in the total.

Homework problems will be assigned but neither collected nor graded. The solution manual is made available. It is highly recommended that you do homework regularly and independently before checking out the solutions.

If you notify me BEFORE the exam AND have a university excuse for missing the exam, you may take the make-up exam arranged by the instructor. Letter grades are determined according to the following scale. Attendance and class participation will be used to help decide borderline grades.

Grade Score

A	90+
B	80-89
C	70-79
D	60-69
F	<60

Attendance Policy: Class attendance is REQUIRED and helpful to decide borderline grades. If a student has to be absent from a particular class, he/she will be responsible for catching up with course material. More than a total of TWO unexcused absences will result in an instructor-initiated drop or final grade reduction. Your academic advisor will be consulted before final action is decided and taken. Moreover, if you expect to miss five or more class hours for any reason, please don't consider taking this course.

Academic Integrity Policy: Please see <http://academics.utep.edu/Default.aspx?tabid=23785>

Civility Statement: This is a class where participation is required. You will be participating in classroom discussions. All students will be treated with respect.

Disability Statement: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

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.