

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

Course #: STAT 4380
(CRN: 12071)
Course Title: Statistics Inference
Credit Hrs: 3
Term: Fall 2025 (Instruction 08/25/2025-12/04/2025)
Course Meetings & Location: 10:30pm – 11:50pm MW, Undergraduate Learning Center 340
Prerequisite Courses: STAT 3330 with a grade of "C" or better.
Instructor: Ritwik Bhattacharya
Office Location: Bell Hall 223
Contact Info: Phone: (915) 747-5761 [O]
ritwik@utep.edu
Fax: (915) 744-6502
Office Hours: 10am-12pm Weekdays via Zoom. Please email to make an appointment.
Class Web page: UTEP Blackboard Portal
Textbook(s), Materials: Lawrence M. Leemis (2020).
Mathematical Statistics,
ISBN 978-0-9829174-6-6.

Course Description and Learning Outcomes: This course is an introduction to mathematical statistics. It builds on Stat 3330 and covers the theory of point and interval estimation and hypothesis tests.

Topic Outline: A calculus-based development of statistical concepts and methods. Distribution theory, point and interval estimation and hypothesis testing in parametric statistical models, chi-square goodness-of-fit and contingency table analysis, simple linear regression analysis, introduction to analysis of variance.

Course Activities/Assignments: This course is entirely based on the classroom boardwork activities. The materials, classroom practices, and demonstrations will be presented on the board only. Additional supporting materials will be available in BB.

Course Schedule:

08/25	Class starts.
10/31	Class drop deadline.
12/04	Class ends.
12/08 - 12/12	Final Exam Period.
<u>Holidays</u>	
09/01	Labor Day.

Grading Policy: There will be two midterms and one comprehensive final exam, plus a few assignments, which, when added together, will make up the final grade. Homework will be made available on the course web page. No homework will be collected or graded. But you are highly recommended to do homework regularly and independently.

No make-up exam will be given and no late assignment submission is accepted without justifiable reasons.

	Date and Time	Proportion
Midterm Exam I	09/29 Monday	25%
Midterm Exam II	11/03 Monday	25%
Assignments	TBA	25%
Final	12/08 Monday	25%
Total		100

Grade Score

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

Make-up Policy: There is NO make-up exam; if you must miss a midterm exam, e.g., with a university excuse or due to illness, the percentage of that exam will be re-distributed to other or future exams.

Incomplete grades are given only in extreme instances and only with prior permission of the instructor. All assigned projects must be turned in on time. No late coursework or project will be accepted, except extreme scenarios.

Attendance Policy: Class attendance is required. Students are expected to actively participate in class discussions and group activities. A late arrival of 15 minutes or more will be considered as an absence. Class attendance is **REQUIRED** and helpful to decide borderline grades. If a student must be absent from a particular class, he/she will be responsible for notifying the instructor and catching up with course material. **FOUR** or more unexcused absences will result in an instructor-initiated drop or grade failing / reduction. Your academic advisor will be consulted before final action is decided and taken. If you expect to miss **TEN** or more class hours for **ANY REASON**, please don't consider taking this course.

Academic Integrity Policy: The University policy is that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Each student is responsible for notice of and compliance with the provisions of the Regents' Rules and Regulations, which are available for inspection electronically at <http://www.utsystem.edu/bor/rules/homepage.htm>

All students are expected and required to obey the law, to comply with the Regents' Rules and Regulations, with System and University rules, with directives issued by an administrative official in the course of his or her authorized duties, and to observe standards of conduct appropriate for the University. A student who enrolls at the University is charged with the obligation to conduct himself/herself in a manner compatible with the University's function as an educational institution.

Any student who engages in conduct that is prohibited by Regents' Rules and Regulations, U. T. System or University rules, specific instructions issued by an administrative official or by federal, state, or local laws is subject to discipline, whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct.

Civility Statement: Calculators may not be shared during exams. Please do not use cell phones, pagers, iPods, MP3 players, blue tooth devices, etc. during class or exam time. Cell phones and pagers should be set to silent or vibrate, and any calls should be taken outside of class. Please do not wear headsets or blue tooth devices during class. Please don't talk in class. Cell phone calculators may not be used on exams. Active participation in class is expected, teamwork in class will be implemented.

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 or 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 semester, please contact me by the end of the first week of class.

UTEP College of Science Policies: The UTEP Fall 2025 drop/withdraws deadline is October 31st, 2025. The College of Science will remain aligned with the University and not approve any drop requests after that date.

All grades of Incomplete must be accompanied by an Incomplete Contract that has been signed by the instructor of record, student, departmental chair, and the dean. Although UTEP will allow a maximum of one year to complete this contract, the College of Science requests it be limited to month based upon completion data. A grade of Incomplete is only used in extraordinary circumstances confined to a limited event such as a missed exam, project, or lab. If the student has missed a significant amount of work (e.g., multiple assignments or tasks), a grade of Incomplete is not appropriate or warranted.