Course #: STAT 5428/6428
Course Title: Introduction to Statistical Analysis
Credit Hrs: 4
Term: Fall 2023
Course Meetings & Location: Lecture: MW 9:30 am - 10:50 am, Bell Hall 130A, Lab: MW 11:00 am - 11:50 am, Bell Hall 130
Prerequisite Courses: STAT 2480 with a grade of C or higher.
Instructor: Naijun Sha
Office Location: Bell Hall 203
Contact Info: Phone # 747-6844
E-mail nsha@utep.edu
Fax # 747-6502
Office Hrs: MW: 1:00-2:00pm or by appointment

Course Objectives (Learning Outcomes): Fundamental techniques for statistical data analysis, including basic probability concepts, inference about means and variances of two populations, analysis of variance and covariance, least squares and logistic regression, categorical data analysis, nonparametric tests and experimental design. Analysis of biological and other data sets using statistical software packages, checking validity of modeling assumptions, and alternatives when modeling assumptions are not satisfied. Computer simulations are used to illustrate concepts such as power and confidence level. Open to students of all disciplines. Through assigned homework, class discussions and hands-on labs, students will also acquire skills to identify real problems that require advanced mathematical and statistical knowledge.

Course Activities/Assignments: Homework and data analysis projects will be assigned throughout the semester. You may do the exercises with your partner, 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 Course Objectives: Homework, Exam/Project

Course Schedule:
Exam 1: TBA
Exam 2: TBA
Final Exam: Wednesday 12/13/23 10:00 am – 12:45 am
Drop/Withdrawal Deadline: 11/03/23

Grading Policy:
Homework 20%
Exam 1 20%
Exam 2 20%
Final Exam 40%
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 me 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.


Civility Statement: Please turn off cell phones during classes.

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 as soon as possible.