THE UNIVERSITY OF TEXAS AT EL PASO COLLEGE OF SCIENCE

DEPARTMENT OF MATHEMATICAL SCIENCES

Course #: STAT/DS 5385/6385 Course Title: Statistics in Research

Credit Hrs: 3

Term: Fall 2022

Course Meetings & Location: TR 10:30 - 11:50am BUSN 330

> Prerequisite Courses: MATH 3323, STAT 4380 or its equivalent

Instructor: Naiiun Sha Office Location: Bell Hall 203

> Contact Info: Phone # 747-6844

> > E-mail nsha@utep.edu

Fax # 747-6502

Office Hrs: TR: 1:00pm-2:00pm or by appointment

Textbook(s), Materials: Required: Applied Linear Regression Models, 4th edition by

Kutner, Nachesheim and Neter.

An introduction to statistical modeling of a univariate response Course Objectives (Learning Outcomes):

conditional on a set of explanatory variables. Classical formulation of multiple linear regression and analysis of variance. Selected topics from generalized linear models, nonparametric regression, and quasilikelihood estimation. Emphasis is on model building, fitting, validation and subsequent inferences. Analysis of real data using major statistical software packages will be considered. Students will learn to apply appropriate statistical techniques on model building, fitting, validation and subsequent inferences for various problems. Through assigned homework, class discussions and hands-on labs, students will

mathematical and statistical knowledge.

Course

Homework and data analysis projects will be assigned throughout the semester. You may do the exercises with your partner, but each student Activities/Assignments:

must answer the questions individually. ZERO grades will be obtained for those whose solutions are the exact copies of someone else's. NO

also acquire skills to identify real problems that require advanced

LATE HOMEWORK WILL BE ACCEPTED.

Assessment of Course Homework, Exam/Project.

Objectives:

Course Schedule: **Midterm Exam: TBD**

> Final Exam: 12/08/22 10:00 am - 12:45 pm Drop/Withdrawal Deadline: 10/28/22

Grading Policy: Homework 20%

Midterm Exam 30% Final Exam 50%

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.

IF you notify me BEFORE the exam AND have a university excuse Make-up Policy:

for missing the exam, you may take the make-up exam arranged by the

instructor.

Attendance Policy: Class attendance is required.

Academic Integrity Policy: Reference UTEP's policy cited in

http://academics.utep.edu/Default.aspx?tabid=23785

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.