Course #: STAT 5388  
Course Title: Multivariate Data Analysis  
Credit Hrs: 3  
Term: Spring 2016  
Course Meetings & Location: MW 1:30 - 2:50pm C303  
Prerequisite Courses: STAT 5380, STAT 5385 or equivalent  
Instructor: Naijun Sha  
Office Location: Bell Hall 203  
Contact Info:  
Phone #: 747-6844  
E-mail: nsha@utep.edu  
Fax #: 747-6502  
Office Hrs: TR: 1:00-2:00pm or by appointment  

Course Objectives (Learning Outcomes): 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 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: Homework, Exam/Project  
Course Description: Statistical analysis of a multivariate response. Multivariate normal distribution and multivariate generalizations of classical test criteria; multivariate multiple linear regression and analysis of variance, principal components and discriminate analysis, factor analysis and canonical correlation. Applications with the use of statistical packages will be considered.  
Course Schedule: Midterm Exam: TBD  
Final Exam: 05/11/16 4:00pm-6:45pm  
Grading Policy: Homework 30%  
Midterm Exam 30%  
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  
Academic Integrity Policy: Reference UTEP’s policy cited in  
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