Department: Statistics

Course No: STAT 242Q

Title: Analysis of Experiments

Credits: 3

Contact : Dipak K. Dey

WQ: Q

Catalog Copy : 242Q. Analysis of Experiments. Either semester. Three credits. Prerequisite: STAT 201 or 220 or consent of instructor. Credit may not be received for both STAT 242 and 342.

Straight-line regression, multiple regression, regression diagnostics, transformations, dummy variables, one-way and two-way analysis of variance, analysis of covariance, stepwise regression.

Course Information :
A. The objective of this course is to introduce students to statistical data analysis using the SAS software. Students will learn in-depth about topics such as
linear regression, analysis of variance methods, analysis of covariance, etc.

B. There will be weekly reading assigments from the text, weekly problem sets involving data analysis, in-class midterm and an in-class final.

C. Students will obtain hands-on experience with analyzing data usign statistical models, such as regression and analysis of variance methods.

Q Criteria : This course involves material which demands facility with algebraic aand analytical skills, and computing. These skills are all integrated throughout the course.

Role of Grad Students: Graduate assistants offer tutoring, grade homeworks and offer software assistance in the department's Teaching Lab.