

Least Square and Regression Analysis

(Dunn Hall 231, TR 2:40 pm-4:05 pm)

Instructor: Su Chen

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Office: Dunn Hall 384 (Work Phone: 901-678-1145)

Office Hours: TR 1:00pm-2:00pm or by appointment.

Prerequisite: MATH6635, some experiences with SAS

Required Textbooks: Applied Linear Regression Models, **Fourth Edition**, by Kutner, Nachtsheim and Neter

Descriptions: This course covers basic concepts of hypothesis testing and confidence intervals; simple and multiple regression analyses, model selection, Mallows's Cp, examination of residuals, Box-Cox transformation, influence diagnostics, multicollinearity, ridge-regression, probit, logit, and log-linear analyses; intensive use of SAS or other statistical packages.

Grading Policy: Grades will be calculated according to the following percentages:

Midterm Exam 30%	A = 90-100%
Homework 20%	B = 80-89%
Mini Project 20%	C = 70-79%
Comprehensive Final Exam 30%	D = 60-69%
	F = below 60%

Note: Any questions regarding grading/scoring must be made within one week of the return of the exam or no change in the grade will be made. Exams will be announced at least one week in advance. The final exam is on Tuesday, Dec 12, 1:00 pm- 3:00pm.

Examinations: There will be two in-class exams: one mid-term and a comprehensive final exam. You may bring ONE formula sheet (called note summary) of 8 1/2" by 11" paper to each test with HANDWRITTEN notes on both sides of the page. Exams will be announced at least one week in advance.

Make-up Policy: No make-ups will be given without written evidence of an official University excused absence. (See University Student Rules.) If no such notice is given, the rights to a make-up are forfeited. In addition (and also in accordance with University Student Rules), a written excuse must be presented upon return to class. Specifically, in the case of illness or injury, students are required to obtain a confirmation note from a health care professional affirming date and time of a medical office visit regarding the illness or injury.

Graded Homework: Homework usually will be graded and return to you within a week. For any assignments that are to be turned in on paper, you can discuss problems with your classmates (only in this section), and then write them down by yourself. Line by line copying is NOT allowed. If you do get the idea of some problem from someone, be sure to give reference to the student who gives you the idea at the end of the problem (this does not influence your score of the homework). No late homework assignments will be accepted without written verification of a University excused absence.

Attendance: I STRONGLY suggest that you make every attempt to not miss a single day of lecture. Falling behind in this course can be very detrimental to your grade.