



STATISTICS 285-3

Intermediate Probability and Statistics

Fall 2003

DAY COURSE

Instructor: Scott Pai

Prerequisite:

Prerequisite STAT 270. Prerequisite or corequisite Math 232

Textbook:

Probability and Statistics for Engineering and the Sciences, 5th Edition, by Jay. L. Devore Publisher Duxbury Press

Calendar Description:

This course is a continuation of STAT 270. Review of probability models; procedures for statistical inference from survey results and experimental data; statistical model building; elementary design of experiments and regression methods; introduction to lifetime analysis; introduction to time series; and introduction to stochastic processes.

Outline:

1. Review of STAT 270 material and relationship to this course
 2. Analysis of Categorical Data
 3. Parameter estimation - least squares and likelihood methods
 4. Hypothesis tests
 5. Elementary design of experiments including analysis of variance
 6. Introduction to Regression Analysis - simple and multiple
 7. Introduction to lifetime analysis
 8. Introduction to Stochastic Processes: Markov Chains and the Poisson process
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Grading:

A grading scheme will be announced by the instructor at the beginning of the semester.

Students should be aware that they have certain rights to confidentiality concerning the return of course papers and the posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester. Students are reminded that Academic Honesty is a cornerstone of the acquisition of knowledge. Scholarly integrity is required of all members of the University. Please consult the General Guidelines of the calendar for more details.

Revised July 2003