

STA 4211 — Design & Analysis of Experiments

Spring 2004

Instructor: Dr. Larry Winner

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Office Hours: M 12:00-1:00, W 3:00-4:00, Th 9:30-10:30

Text: *Applied Linear Statistical Models, 4th Ed.* by Neter, Kutner, Nachtsheim, and Wasserman

Course Description

This course provides an introduction to the design and analysis of statistical experiments. Experimental design techniques are used in a wide variety of academic, industrial, and scientific areas. We will cover widely used designs, and discuss practical and computational issues regarding their analysis.

Tentative Topics

Completely Randomized Design

Randomized Block Design

Latin Square Design

Multiple Comparisons of Treatment Means

Factorial Designs

Nested Designs

Analysis of Covariance

Intro to Response Surface Methodology

Tests and Grading

- Exam 1 – January 30 – 20%
- Exam 2 – February 23 – 20%
- Exam 3 – March 26 – 20%
- Exam 4 – April 23 – 20%
- Homework – 20%

Notes:

- Homework will be assigned from text, but not taken up. Homework assignments will be handed out that will be taken up and graded. You will have one week between assignment and collection. Handouts will be given out one time only.
- For each exam, you can bring one **hand-written** 3X5 index card with formulas and/or notes.
- No make-up exams will be given. *Do not plan on leaving town prior to the Final Exam!!!*
- Use e-mail in only emergency situations. It is virtually impossible to answer technical statistical questions in e-mail messages. E-mail is not a substitute for showing up for office hours. Please do not send any messages with attachments.