

# **STA 4211 — Design & Analysis of Experiments**

**Spring 2013**

**Instructor: Dr. Larry Winner**

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**Office Hours: TBA**

**Text: Applied Linear Statistical Models, 5th Ed. by Kutner, Nachtsheim, Neter and Li**

## **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 (Weights to Be Determined)**

- Exam1 – February 1
- Exam2 – March 15
- Exam3 – April 24
- Homework/Final Project

**Notes:**

- Homework will be assigned from text, but not taken up. Homework assignments will be posted on the web site that will be taken up and graded. You will have at least one week between assignment and collection.
- For each exam, you can bring one hand-written 4x6 index card with formulas and/or notes.
- No make-up exams will be given.
- Use e-mail sparingly. 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.

