

STA 6167
STATISTICAL METHODS IN RESEARCH II
SPRING 2011
TU 2-3, TH 3 @ FLOYD 100

INSTRUCTOR: Dr. Larry Winner

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OFFICE HOURS: TBA (will be posted on class website)

TEXT: *Applied Statistical Methods* (on class website)

General Topics (Tentative)

- Multiple Linear Regression
- Analysis of Covariance
- General Linear Model
- Factorial Designs (Fixed, Mixed, Random Effects)
- Nested Designs
- Split-Plot Designs
- Repeated Measures Designs
- Logistic Regression
- Poisson Regression
- Nonlinear Regression
- Introduction to Survival Analysis

Grading:

This course will consist of a series of data analysis projects and 3 exams. The projects will count 25% of final grade, and each exam will count 25%.

- **Exam 1: Tuesday, Feb. 8**
- **Exam 2: Tuesday, March 1**
- **Exam 3: Tuesday, April 19**

Projects and datasets will be posted on class website.

SAS and R code will be provided for all methods covered in the course on class website.

R can be downloaded for free from the website:

<http://cran.r-project.org/bin/windows/base/>

SAS licenses (not permanent, but while you are a student) can be purchased for \$50 in the basement of the bookstore or by going to (at least, it was the last time I taught this class):

www.software.ufl.edu/sas

Notes:

- Homework problems will be assigned from textbook, but not graded.
- Homework projects will be posted on class website and will be taken up and graded. Projects must be handed in (hard copy), e-mail will not be accepted.
- Exams are 1-hour. You may bring a copy of the t, χ^2, F table with hand written notes (8.5x11")
- Homework will count 25% of your course grade, highest exam will be 30%, lowest exam 20%, median exam 25%
- Grades are not negotiable.
- You may request problems to be worked out in upcoming class via e-mail. I will not give detailed solutions via e-mail.