

STA 6167 - SECTION 1FŚ0
STATISTICAL METHODS IN RESEARCH II
SPRING 2016
TU 2-3, TH 3 @ GRIFFIN/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) and Ott and Longnecker, 2015. *An Introduction to Statistical Methods & Data Analysis, 7th Ed* Cengage.

General Topics (Tentative)

- **Multiple Linear Regression**
- **Completely Randomized Design**
- **Randomized Block Design**
- **Factorial Designs (Fixed, Mixed, Random Effects)**
- **Nested Designs**
- **Split-Plot Designs**
- **Repeated Measures Designs**
- **Analysis of Covariance**
- **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. 2**
- **Exam 2: Tuesday, March 15**
- **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 2-hour. You may bring a copy of the t, x^2, F table with hand written notes (8.5x11")**
- **Homework will count 25% of your course grade, each exam will be 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.**