

STA 6167
Course Information
Summer B 2008

Class Time: MTWRF, Period 2 (9:30-10:45)

Class Room: 2333 Turlington Hall

Instructor: Mark C. Yang
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Text: SAS for Mixed Models, 2nd Ed. By Littell, Milliken, Stroup, Wolfinger, and Schabenberger. SAS Institute Inc. ISBN: 978-1-59047-500-3. Notes can be downloaded from my website: <http://www.stat.ufl.edu/~yang/STA6167/>

Topics: Regression analysis. Design and analysis of experiments: factorial, nested, and split-plot experiments. Repeated measures data. Categorical data.

Objectives: To prepare students with statistical skills needed to plan research projects.
To prepare students with statistical skills needed to analyze research data.

Grading Policy: A total of 50 points will be possible from 2 in-class exams (25 points each) and 5 homework assignments (10 points each). Letter grades will be determined as follows:
A: 85-100; B+: 75-84; B: 60-74; C: less than 60

1. Homework will be assigned every Wednesday and due the next Monday (First homework will be assigned one day earlier because of the July 4th Holiday).

2. The two exams will be on July 25 (Friday) and Aug. 8 (Friday)

Tentative schedule: 1. The class coverage will follow the chapters of the book, except the first

few days on the basics of STA6166 and SAS.

2. The sequence the coverage will be: Chapter 2 → 3 → 4 → 12 → 5 → 14* → 7 → 10**.

* including PROC CATMOD; **as time permits.

There are many software packages that can be used to do the statistical procedures covered in this class, such as SAS, SPSS and R. We will use only one, SAS. Even so, we do not have the time to teach many aspects of SAS. For those who have not seen SAS, you need to learn through the statistical examples in the class plus some reference material. Actually, this is how most people learn a new computer language.

SAS is available in the computer lab in Room 2103 McCarty B. Here is how you get started:

1. Sign in with your gator link account.
2. Start -> program -> sas 9.1 (English), You will see a three piece window. The lower right window is to type in your SAS program.
3. When finished typing, click the running person icon at the top to run your program.
4. Click the mouse right bottom in any window, you see options: File, Edit, View, etc.
5. Go from View you see options: Program Editor, Log and Output. These are the program, log (comments on the program) and output files.
6. To clear a widow: Edit => Clear All (Very useful operation when you run new programs.)

Manual for SAS procedures:

Help => SAS help and documentation => SAS Products => SAS/STAT => SAS/STAT user's Guide => Click to the procedure you want e.g. The MIXED Procedure

For SAS tutoring, you may visit:

<http://www.stat.ufl.edu/~yang/STA5106/>

Two books,

The Little SAS Book, by L.D. Delwiche and S. J. Slaughter and
The First course in Statistical Methods, by R. L. Ott and M. T. Longnecker

are on reserve in the Marston Science Library.