

**Statistics 6740:
TuTh 11:10 – 12:30
Cockins Hall Room 228**

**Instructor: Steven J. Naber, PhD
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Office Hours: Wednesday, 1:30 – 3:00**

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Text: *SAS Applications Programming: A Gentle Approach*, Frank Dilorio

Course Topics:

1. Overview/Review of SAS®
2. Inputting data from various formats
3. Merging and transporting data sets
4. Data manipulation and calculations for statistical analyses
5. Missing data calculations
6. Formatting for presenting results and as a data analysis tool
7. Basic data summary tables
8. Graphical presentation of data
9. Using relational databases and SQL
10. Macro programming language
11. Output delivery system for presentation and analyses

Grading:

Homework (1/3)
Project (1/3)
Take-home final (1/3)

Homework Description:

- Two types:
 - Daily assignments (ungraded)
 - Reading from text
 - SAS exploration
- Programming assignments (6 - 8)
 - Data sets will be provided
 - Read data into SAS
 - Perform several tasks
 - Create output
 - Submit:
 - SAS program (with comments)
 - SAS log file; and
 - Output

Project Description:

- Datasets will be provided
- Read data into SAS
- Perform data manipulations
 - Calculate new variables
 - Subset data or expand/contract data
- Calculate summary statistics using at least 2 procedures
- Perform statistical analysis appropriate to your data
- Create graphics to illustrate/supplement your statistical analysis
- Write report (10 – 20 pages + appendices)