

**Statistics 6740:
MWF 4:10 – 5:05
Journalism Building Room 375**

**Instructor: Steven J. Naber, PhD
Office: Cockins Hall (CH) 212C
Office Phone: 292-0729
Email: naber.1@osu.edu
Office Hours: Thursday, 1:30 – 3:00**

**Grader: Jieyi Jiang
Email: jiang.4325@osu.edu**

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

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. Graphical presentation of data
8. Output delivery system for presentation and analyses
9. Using relational databases and SQL
10. Macro programming language

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)