**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**](mailto:naber.1@osu.edu)

**Office Hours: Thursday, 1:30 – 3:00**

**Grader: Jieyi Jiang**

**Email: [jiang.435@osu.edu](mailto:zhang.1125@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)