Statistics 6740: Data Management and Graphics for Statistical Analyses
MWF 12:40 – 1:30
Derby Hall Room 0080

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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. Using relational databases and SQL
8. Graphical presentation of data
9. Output delivery system for presentation and analyses
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 (8)
    - Data sets will be provided
    - Read data into SAS
    - Perform a few tasks
    - Create output
    - Submit:
      - SAS program (with comments)
      - SAS log file; and
      - Output

**Project Description:**

- Find your own dataset
  - 5 – 10 variables, at least one of which is character
- Read data into SAS using at least 2 methods
- Perform data manipulations
  - Calculate new variable
  - Subset data or expand/contract data
- Calculate summary statistics using at least 2 procedures
- Perform statistical analysis appropriate to your data
- Write macro
- Create graphics to illustrate/supplement your statistical analysis
- Write report (5 – 10 pages + appendices)