

Basics

- (1) Statistics 103
- (2) scott.schwartz@duke.edu
- (3) <http://www.stat.duke.edu/~sls37/>
- (4) 2:00 – 3:15 class (Social Sci 124)
- (5) 3:30 – 4:30 lab (Old Chem 01)
- (6) 7:30 – 8:30 office hours (Old Chem 211A)
- (7) May 19 – June 28
- (8) Except memorial day (May 31)
- (9) and weekends (too bad, I know)

Course Outline

- (1) Bring your own data
- (2) Learn some statistics and programming (R)
- (3) Analyze your data

A Little More

- (1) 50% of grade is based on TWO tests
- (2) 35% is based on final project/presentation
- (3) 15% is based on homework/labs
- (4) There is NO final

Supporting Text

- (1) What I give you
- (2) The web
- (3) Wonnacott/Wonnacott Intro to Stat 5thEd

Order of Things (W/W chapters)

- Probability (3)
- Models and statistics (4, 2, 5.1, 16.1)
- Functions (2.5, 4.6, 4.7)
- Bivariate data (5)

TEST

- Random/Observational data (1)
- Bias and Efficiency (7)
- Central limit theorem (6)
- Inference of sample means (8)
- Hypothesis testing (9)
- χ^2 tests (17)

TEST

- Correlation (15.1–15.3)
- Ordinary Least Squares (11)
- Regression (12)
- Multiple Regression (13, 15.4-15.5)
- Regression Extensions (14, 10)
- Maximum Likelihood estimation (18)
- Bayesian Inference (19)

Final Project Presentations

One More Things

- (1) You're gonna work really hard
- (2) It will be over before you know it
- (3) You'll end up with some practical skills
- (4) Get help from your classmates