Instructor: Rudy Angeles
Email: rangeles@stanford.edu
Office Hours: Thursdays, 9–11 AM
Lectures: 11–11:50 AM, McCullough 115
Review Sections: In-class on Wednesday starting the second week

Grading Assessment:
Homework Assignments: 10%
R Labs: 15%
Weekly Quizzes: 20%
Midterm: 20% (Wednesday, July 16, 2014: In-class)
Final Exam: 35% (Saturday, August 16, 2014: 8:30–11:30 AM; Room TBD)

The final exam schedule is set by the Registrar. You may only take the final exam at this time.

Course Content:
We will follow the text rather closely and attempt to cover Chapters 1–9, 12, and 14. Our lectures will be supplemented by R labs and possible guest lectures from professional quantitative/statistics researchers.

Major course themes include:

- common sense statistical reasoning
- data visualization
- applied data analysis: working with R and spreadsheets
- using probability to model uncertainty
- formulating problems as statistics questions

In terms of technical course content and methodology, we will try to cover:

- Simpson’s paradox
- histograms, box plots, and Pareto charts
- scatterplots and the least squares regression line
- measures of center: mean, median, mode (and perhaps geometric mean)
- basic probability models (binomial, Poisson, normal)
- Central Limit Theorem
- hypothesis testing: comparing means and proportions
- confidence intervals
- chi-square tests (time permitting)