

**Woodrow Wilson School – Princeton University**  
**WWS 507 B – Fall 2005**  
**QUANTITATIVE ANALYSIS**

Instructor: Giovanni Oppenheim

Preceptor: Fernando Botelho

1. Your grade in this class will be based on your performance on a 90-min. midterm exam (20%), a 180-min. final exam (30%), four projects (9% each, for a total of 36%), a series of (almost) weekly exercises (total of 10%), and on your participation to the survey of NJ voters on upcoming gubernatorial election (4%).
2. There will be weekly precepts on Tuesdays 7:00-8:30pm in Robertson 001.
3. You may work in teams on the exercises. Teams should have four or fewer members, and each team should turn in only one assignment listing all the team members' names. You are also encouraged to work together on the statistical analysis for the projects. You may NOT work together on the project write-ups. Each of you must turn in your own write-up of the project. You may turn in exercises and projects early, but we will not accept late assignments.
4. Our contact information is:

Giovanni Oppenheim Office: Robertson 101 Phone: TBA Email: <a href="mailto:oppy@princeton.edu">oppy@princeton.edu</a> <a href="mailto:fbotelho@princeton.edu">fbotelho@princeton.edu</a> Office hours: Tuesdays 3:30-4:30, Robertson 101 Also by appointment.	Fernando Botelho Office: Robertson 321 Phone: 8-0090 Email:  Office hours: Thursdays: 7:30-9:30PM, Robertson 321
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5. As part of the course students are expected to help conduct a survey of New Jersey voters concerning the upcoming gubernatorial election. This project, held jointly by WWS507B and WWS507C students, will require 2 hours of interviewing in the WWS Survey Center, and a short memo (max 2 pages, double spaced) describing your experiences in conducting the survey. Survey data will be used in class.
6. Important dates (see schedule):
  - Sep 20: Project 1 distributed
  - Oct 06: Project 1 due
  - Oct 11: Project 2 distributed
  - Oct 15-21: Survey on NJ voters in WWS Survey Center (2 hours per student)
  - Oct 25: Memo describing the survey experience due
  - Oct 27: Midterm and Project 2 due \*
  - Nov 15: Project 3 distributed
  - Dec 01: Project 3 due
  - Dec 06: Project 4 distributed
  - Jan 13: Project 4 due
  - Jan 18: Final exam
7. Project 2 and Midterm due dates \*.

You have two options:

- A. Turn-in Project 2 on 10/27 and take the Midterm as a take-home exam (on the honor system, with a self-imposed 90 minutes limit) to be turned in on Nov 07 (12:00 noon).
  - B. Do the midterm in class on 10/27 and turn-in Project 2 on Nov 07 (12:00 noon).
8. Course Topics
- Looking and Producing Data
  - Probability
  - Sampling Distributions
  - Inference
  - Regression Estimation
  - Assessing Regression Studies
  - Experiments and Quasi-Experiments
  - Models for Binary Response
9. The textbook for the course is:
- David Moore and George McGabe, *Introduction to the Practice of Statistics*, 5<sup>th</sup> ed., W.H.Freeman & Co., New York (2005)  
(visit their website at <http://bcs.whfreeman.com/ips5e/>)
- In the second half of the semester we will also rely on the book by James M. Stock and Mark W. Watson, *Introduction to Econometrics*, 1<sup>st</sup> ed., Addison-Wesley, Boston (2003). Selected non-technical sections from this book will be found on e-reserve on Blackboard.