

Economics 204: Spring 2009 – Syllabus

Instructor: Sophocles Mavroeidis
Email: Sophocles_Mavroeidis@brown.edu
Office hours: TTh 1.15-2.15pm, Robinson 303B
Classes: TTh: 10:30-11:50 am, Robinson 301
Course webpage: mycourses.brown.edu

The main **textbook** for this course is:

Wooldridge, 2002, *Econometric Analysis of Cross Section and Panel Data*, MIT press.

As the title suggests, the book does not discuss methods for analyzing pure time-series data. I aim to cover some basic time-series topics in this course, for which the following textbook will be useful:

Hamilton, 1994, *Time Series Analysis*, Princeton University Press.

Buying the second textbook is not essential (lecture notes are provided) but recommended if you want to do econometrics later on.

In this set of lectures, we will cover the following topics (roughly, chapters 1-10 of Wooldridge and some of Hamilton): basic asymptotic theory, regression analysis, single and multiple equation linear models, various estimation methods (OLS, GLS, 2SLS, GMM) and their large-sample properties. On time series we will cover univariate and single-equation time series models, stationarity and ergodicity, ARMA models, their estimation by Maximum Likelihood, and asymptotic theory for dependent observations.

There will be **weekly assignments**, carrying a portion of the final grade.

Exams: There will be two midterms, on 2/19 and 3/31, and one final on 4/30, all taking place in Robinson 301, 10:30-11:50 am.

Data files to run the examples in the book and for the assignments can be downloaded from the Wooldridge book's website, or from the course's website.