Economics 4818-001 - Introduction to Econometrics - Spring 2008

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Contact

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Office hours: MW 9:30-10:45, 1:00-2:00
Class schedule: MWF 2:00-2:50, ECON 119

Course Description

Economics 4818 is an introduction to econometric theory and applications. This course will cover basic econometric methods and how to apply them to economic questions. You will use the econometric software EViews to complete econometric tests and estimation exercises.

Prerequisites

The prerequisite for this course is **Economics 3818**, Introduction to Statistics with Computer Applications, or its equivalent. The course requires familiarity with probability and statistics. The necessary concepts in probability and statistics are summarized in Appendices B and C of the text. Appendix A reviews some basic algebra and calculus tools, which are useful for understanding the material in this course.

Text

Introductory Econometrics: A Modern Approach (3rd Edition), by Jeffrey Wooldridge. I will follow the text closely. Keep up with the readings. It is essential for success in this class. However, the textbook is not a substitute, but a complement, for class attendance.

Software

The software for the course is EViews and it is available in the Economics Computer Lab. You can check the EViews availability in other PC labs at: http://webdata.colorado.edu/labs/softwaresearch, type E-Views. Students who want to purchase their own version can do so at http://www.eviews.com/eviews4/eviews41s/evstud41.html. The Student Version EViews 4.1 costs $39.95.

Evaluation

Your grade will be determined by four components:
- Problem sets and computer exercises: 30%.
- Two midterm exams: 20% each
- Cumulative final exam: 30%.

Assignments

I will assign problem sets and computers exercises. **Late assignments will not be accepted.** During the semester, I will randomly choose which assignments to grade.

Guest Speaker

There will be a guest speaker for this class. The topic will be using

Tentative Course Schedule (Text chapters are in parentheses)

1. Introduction (Ch. 1)
2. Review of Mathematics and Statistics (Appendices A, B and C)
3. The Simple Regression Model (Ch. 2)
4. Multiple Regression Analysis: Estimation (Ch. 3)

Midterm 1: Monday, February 18th

5. Multiple Regression Analysis: Inference (Ch. 4)
6. Multiple Regression Analysis: OLS Asymptotics (Ch. 5)
7. Multiple Regression Analysis: Further Issues (Ch. 6)
8. Multiple Regression Analysis with Qualitative Information: Binary Variables (Ch. 7)

Midterm 2: Wednesday, March 19th

9. Heteroskedasticity (Ch. 8)
10. More on Specification and Data Problems (Ch. 9)
11.