

# 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 econometric techniques in financial analysis (evaluating market risk, stock performance, and other risk factors). I will announce the date and time as soon as possible.

## **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 18<sup>th</sup>**

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 19<sup>th</sup>**

9. Heteroskedasticity (Ch. 8)
10. More on Specification and Data Problems (Ch. 9)
11. Basic Regression Analysis with Time Series Data (Ch. 10)
12. Serial Correlation and Heteroskedasticity in Time Series Regressions (Ch. 12)

### **Final: Saturday, May 3, 1:30 - 4:00 p.m.**

## **University Policies**

Please be aware of the university policies regarding classroom behavior, honor code, disabilities, religious practices and sexual harassment. All campus policies should be accessible at <http://www.colorado.edu/policies/>.

University policies regarding classroom behavior are available at <http://www.colorado.edu/policies/classbehavior.html> and at [http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student\\_code](http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code)

Information regarding the University Honor Code is available at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode>. The Honor Code Council can be contacted by email at [honor@colorado.edu](mailto:honor@colorado.edu) or by telephone at 303-725-2273.

University policies regarding disabilities are available at <http://www.colorado.edu/disabilityservices>. Disability Services can be contacted by telephone at 303-492-8671, or in person at Willard 322.

University policies regarding religious practice are available at [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html).

University policies regarding Sexual Harassment and Amorous Relationships are available at <http://www.colorado.edu/odh/>. The Office of Discrimination and Harassment can be reached by telephone at 303-492-2127. The Office of Judicial Affairs can be reached at 303-492-5550.