ECONOMICS 4818
Introduction to Econometrics
Fall 2010

Professor: Billy Mertens
Office: ECON 12
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Class website: All course materials will be posted on WEBCT/CU Learn.
Office Hours: M 1:00 – 5:00; W, F 11:15 – 11:45; and by appointment.

Course Description:
This course provides an introduction to the theory and applications of modern econometrics. This course begins by reviewing and extending the statistical material covered in Econ 3818. Following this, students are guided through the principals of regression analysis starting with the simple regression model. Issues in relation to estimation, inference and specification will be explored.

Text:
Introductory Econometrics: A Modern Approach, (4th edition) by Jeffery M. Wooldridge. The text in the 2nd and 3rd edition is identical to the 4th edition. But some practice problems are missing in the old editions. The text is important, as I will follow it closely. Keep up with the readings. It is essential for success in this class.

Prerequisites:
Economics 3818, Introduction to Statistics with Computer Applications, or its equivalent.

Homework
Homework assignments will be posted on the class website. It is a vital part of learning the math concepts we will cover and their applications. Some class time will be set aside to do and go over homework assignments.

Exams and Grading

Homework	15%
Exam I (Friday 9/24)	20%
Exam II (Monday 10/25)	20%
Exam III (Friday 12/3)	20%
Final Exam (Sat. 12/11 at 4:30pm)	25%

There will be three exams and a cumulative final. No exams will be dropped. Exams (except for the final) are not cumulative, but the material does build on itself so it is important to understand all of the concepts as we go. No makeup exams will be given. If you miss an exam, you will receive a zero. There is one exception to this rule. In the event that you do not take one of the exams, the weight of the final exam may be increased if you are ill and can provide proof (e.g. a letter from the student health center), or you have a **prearranged** excused absence from me.

Software:
We will utilize Microsoft Excel for the data analysis in this course. Excel is available in all campus computer labs, including the lab in the basement of the Economics building.

Tentative Course Outline (Text chapters are in parentheses):
1. Review of Mathematics and Statistics (Appendices B and C)
2. The Simple Regression Model (Ch. 2)
3. Multiple Regression Analysis: Estimation (Ch. 3)
Midterm 1

4. Multiple Regression Analysis: Inference (Ch. 4)
5. Multiple Regression Analysis: OLS Asymptotics (Ch. 5)
6. Multiple Regression Analysis: Further Issues (Ch. 6)
Midterm 2

7. Multiple Regression Analysis with Qualitative Information: Binary Variables (Ch. 7)
8. Heteroskedasticity (Ch. 8)
9. More on Specification and Data Problems (Ch. 9)
Midterm 3

Review
Final

University 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

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 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 polices regarding religious practice are available at
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.