ECONOMICS 4818
Introduction to Econometrics
Summer 2013

Instructor: Billy Mertens
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Office Hours: Tuesdays 11am – 12pm and Thursdays 8 – 9am

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 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
In-class problems	5%
In-class problems - group	5%
Exam I (Wednesday 6/12)	30%
Exam II (Monday 6/24)	30%
Exam III (Friday 6/5)	30%

There will be three exams. No exams will be dropped. Exams 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. Exceptions to this rule are specified in University policies (e.g. you are ill and can provide proof - a letter from the student health center). You may also **prearrange an** excused absence from me. In either case you will take a cumulative final to replace the missed exam.

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 A, B and C)
2. The Simple Regression Model (Ch. 2)
Exam 1

3. Multiple Regression Analysis: Estimation (Ch. 3)
4. Multiple Regression Analysis: Inference (Ch. 4)
5. Multiple Regression Analysis: OLS Asymptotics (Ch. 5)
Exam 2

6. Multiple Regression Analysis: Further Issues (Ch. 6)
7. Multiple Regression Analysis with Qualitative Information: Binary Variables (Ch. 7)
8. Heteroskedasticity (Ch. 8)
Exam 3

Policy on Cheating:
If you are found to have violated the honor code (see below), by both myself and the honor code council, you will automatically fail the course!

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.