

# Department of Economics Course Outline

**Term:** Fall 2008

**Course:** Economics 495 **Section:** 01

Introduction to Econometrics I

**Time:** TR 9:30 – 10:45 **Place:** SH 157

**Instructor:** Eugene Choo **E-mail:** echoo@ucalgary.ca

**Office:** SS 446 **Office** TR 11:00 – 12:00

**Hours:** 

## **Textbook(s):**

Required: Wooldridge, Jeffrey M., Introductory Econometrics, Thomson, South Western, latest edition.

## **Book(s) on Reserve:**

- (1) A Guide to Econometrics, 5th Edition by Peter Kennedy, The MIT Press.
- (2) An Introduction to Classical Econometric Theory by Paul A. Ruud, Oxford University Press, (March 23, 2000).

## **Blackboard:**

This course will make use of Blackboard - students who are registered in this course can log on at <a href="https://blackboard.ucalgary.ca/webapps/login/">https://blackboard.ucalgary.ca/webapps/login/</a>. Please note that Blackboard features a class email list that I will use. It is your responsibility to ensure that Blackboard uses the e-mail address of your choice. The default is your University of Calgary e-mail address.

#### **Course Outline:**

Econometrics combines Economic Theory, Statistics, and Mathematics. The primary objective of the course is to provide students with a solid theoretical and practical foundation for the interpretation of empirical evidence in economics. Besides focusing on econometric theory, students will also have "hands-on" experience working with economic data. This course will focus on the use of multi-variate linear regression model in cross sectional econometrics. Students will also be introduced to time-series, panel data and limited dependent variable models.

## **Recommended Preparation:**

Econ 495 starts at a level that assumes familiarity with the material covered in Econ 395 and

Stats 213, including proficiency at mathematical statistics and some calculus. We make occasional, but limited, use of matrix algebra. While we review key results in class, students may find the textbook appendices provide a useful overview of the material. Students with weak math backgrounds will especially benefit by taking the recommended math courses.

The applied component to this course requires the use STATA software. Students are required to use STATA software on assignments, and should expect to be tested on basic coding and output. Computers in the Tri-Faculty computer lab (SS018) are equipped with STATA.

Week	Topic	Readings <sup>a)</sup>	Notes	
1	Stats review	Chapters 1 & 2, review Stats. 213 and Econ. 395, App B and C	Sept 8	
2	Multi-regression (Estimation)	Chapter 3	Sept 15	
3	Multi-regression (Inference)	Chapter 4	Sept 22 (Assignment 1 due)	
4	Multi-regression (Asymptotics)	Chapter 5	Sept 29	
5	Multi-regression (Other issues)	Chapter 6	Oct 6 (Assignment 2 due)	
	Midterm 1	Chapter 1 to 5	Oct 9	
6	Dummy Variable Models	Chapter 7	Oct 13	
7	Heteroskedasticity	Chapter 8	Oct 20	
8	Misspecification	Chapter 9	Oct 27 (Assignment 3 due)	
9	Time Series Models	Chapter 10 and 11	Nov 3	
	Midterm 2	Chapter 6 to 11	Nov 6	
10	Time Series Models	Chapter 12	Nov 10 (Assignment 4 due)	
11	Panel Data Models	Chapters 13 and 14	Nov 17	
12	Instrumental Variables	Chapter 24	Nov 24	
13	Limited Dependent Variable	Chapter 17	Dec 1 (Assignment 5 due)	

Final examination scheduled by the Registrar's Office and held in a classroom.

<sup>&</sup>lt;sup>a)</sup> All readings from Wooldridge

## **Grade Determination and Final Examination Details:**

Five (5) Exercises @ 6% each	30%
Two (2) Midterm Exams @ 15% each*	30%
Final Exam	40%
	100%

Exercises, midterms and final exams are marked on a letter basis, then converted to the Universities grade point value. The course grade is then calculated using the weights indicated above. As a guide to determining standing, these letter grade equivalences will generally apply:

A+	95 - 100	В	73 - 76	C-	60 - 62
A	85 - 94	B-	70 - 72	D+	56 - 59
A-	80 - 84	C+	67 - 69	D	50 - 55
$\mathbf{B}$ +	77 - 79	C	63 - 66	F	0 - 49

If, for some reason, the distribution of grades determined using the aforementioned conversion chart appears to be abnormal the instructor reserves the right to change the grade conversion chart if the instructor, *at the instructor's discretion*, feels it is necessary to more fairly represent student achievement.

A passing grade on any particular component of the course is not required for a student to pass the course as a whole.

Non-programmable calculators will be allowed during the writing of tests or final examinations.

There will be a Registrar scheduled final examination, lasting 2 hours and held in a classroom.

Tests and exams may involve multiple choice questions.

Students' Union Vice President Academic:

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Students' Union Faculty Representative (Social Sciences)

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Society of Undergraduates in Economics (S.U.E.) www.ucalgary.ca/sue/

### **Notes:**

- Students seeking reappraisal of a piece of graded term work should discuss their work with the Instructor within fifteen days of the work being returned to the class.
- It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at 220-8237. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course.

Safewalk / Campus Security: 220-5333

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