

Economics 615 (L01) Econometrics I

Instructor:	Campa Pamela	Lecture Location:	SS 423
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Office Hours:	By appointment	Fall 2015	

Textbook(s):

A. Colin Cameron and Pravin K. Trivedi. *Microeconometrics: Methods and Applications* (Cambridge University Press, 2005)

The textbook is intended as the main reading for the course. Although in the outline I will refer to entire chapters of the textbook, sometimes you will be required to read only portions of each chapter, the selection of which will be made clear during the respective class. For specific topics I will also use the following textbooks:

Angrist, J., and S. Pischke. *Mostly Harmless Econometrics* (Princeton University Press, 2008)

Although this book is a “must have” for anybody interested in working with cross-sectional and panel data to identify causal relationships, it is not required for this course; we will work on very limited sections of the book, which will be available in PDF on Blackboard.

Kenneth Train, *Discrete Choice Methods with Simulation*, available here:
<http://elsa.berkeley.edu/books/choice2.html>

A. Colin Cameron and Pravin K. Trivedi. *Microeconometrics Using Stata*, Revised Edition (Stata Press 2010)

In addition, we will occasionally discuss in class research papers. These papers are marked with one asterisk in the list below, which means that they are supplemental materials. You can be tested for the portion of these readings that is included in the lecture slides. The list may change throughout the term, in which case I will make an announcement. All the readings and the lectures slides will be available in PDF on Blackboard, unless otherwise noted.

Another text that you might find useful is:

Wooldridge, *Econometric Analysis of Cross Section and Panel Data*. (MIT Press)

Book(s) on Reserve: none

Desire2Learn: This course will make use of the Desire2Learn (D2L) platform. Students who are registered in the course can log on at <http://d2l.ucalgary.ca> through their student centre. Please note that D2L features a class e-mail list that may be used to distribute course-related information. These e-mails go to your University of Calgary e-mail addresses only.

Course Outline:

1. Linear Models

Ordinary Least Squares, Weighted Least Squares, Median and Quantile Regression, Model Misspecification, Instrumental Variables

CT, Chapter 4

MHE, Chapter 3

2. Classical Hypothesis Testing

- Hypothesis testing for inference

CT Chapter 7

- Specification tests and model selection

CT Chapter 8

3. Instrumental Variables

CT, Chapter 4

MHE, Chapter 3

4. Discrete Choice Models

- Binary Outcome Models: Logit, Probit

CT Chapter 14

Kenneth Train, Chapters 2, 3, 5

- Multinomial Models: Multinomial Logit, Nested Logit, Multinomial Probit, Ordered Choice Model

CT Chapter 15

*Boskin, Michael J, 1974. A Conditional Logit Model of Occupational Choice. *Journal of Political Economy*, *University of Chicago Press*, vol. 82(2),

- Numerical Maximization

CT Chapter 16

Kenneth Train, Chapter 8

5. Tobit

CT Chapter 16

6. Survival Analysis

CT Chapter 17

*Van den Berg, Gerard J., 2001. Duration models: specification, identification and multiple durations, in: J.J. Heckman & E.E. Leamer (ed.), *Handbook of Econometrics*, edition 1, volume 5, chapter 55, pages 3381-3460 Elsevier

Grade Determination and Final Examination Details:

First Midterm Examination: 15%

Second Midterm Examination: 15%

Four Home Assignments and Class Participation: 20%. Students may work on home assignments in groups of up to three people, but they need to hand in individual copies of the solutions. Students are strongly encouraged to work on the assignments and to understand the solutions, as this will undoubtedly help in test preparation. Midterms and Finals are usually based on problem solving techniques developed in class and in the homework assignments.

Final Examination: 50%

Tests and final exams are marked on a numerical (percentage) basis, then converted to letter grades. The course grade is then calculated using the weights indicated above. The following letter grade equivalences will apply:

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

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

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

Tests and exams WILL involve multiple choice questions.

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

Notes:

- All students must comply with the regulations published in the University Calendar concerning “Intellectual Honesty,” “Examinations,” etc.
- Students seeking reappraisal of a piece of graded term work (term paper, essay, etc.) 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 403-220-8237. 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.
- Students who are unable to write the midterm because of an illness, family emergency or religious observance will have the midterm weight shifted to the final examination. Documentation MUST be provided.

Safewalk/Campus Security: 403 220 5333
Emergency Assembly Point: Professional Faculties Food Court

PC/mi
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