

## Economics 495(L01) (Econometrics I)

Instructor: Marian Miles  
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Lecture Location: EDC 386  
Lecture Days/Time: TR 14:00 – 15:15

Office: SS 350  
Office Hours: T 12:45 – 13:45, W 1:10 – 2:10      Fall 2016

### Course Description

Introduction to the techniques used in quantifying economic relationships. Econometric principles of estimation and hypothesis testing will be applied to the various economic models. The use of a standard econometric software package is emphasized.

### Course Objectives/Learning Outcomes

This course will focus on the theory and application of the multi-variate linear regression model. The least squares estimators will be the principal tool for model estimation. The course will emphasize the fundamentals of regression models and deal with model specification, estimation and hypothesis testing. Students will be introduced to cross-sectional, time series and panel data models.

The applied component to this course requires the use of 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 and simple regression model	Chapters 1 & 2 and review Stats. 213 and Econ. 395 notes.	Classes begin Sept. 12
2	Multi-regression Model: estimation & inference	Chapters 3 & 4	
3	Multi-regression Model: inference & asymptotics	Chapters 4 & 5	
<b>** 3</b>	<u>Assignment #1 due</u>		<b><u>Sept. 30</u></b>
4	Multi-regression Model: asymptotics & other issues	Chapters 5 & 6	
5	Dummy Variable Models	Chapter 7	
<b>** 5</b>	<u>Assignment #2 due</u>		<b><u>Oct. 14</u></b>
6	Heteroskedasticity	Chapter 8	
7	Data Issues	Chapters 9	
<b>** 7</b>	<u>Assignment #3 due</u>		<b><u>Oct. 28</u></b>
<b>**8</b>	<b><u>MIDTERM– Nov. 1</u></b>	<b><u>Chapters 1 - 9</u></b>	<b><u>Nov. 1</u></b>
8	Time Series Models	Chapter 10	
9	Time Series Models	Chapters 10 & 11	<u>No class Nov.10</u>
10	Time Series Models	Chapter 11	
<b>** 11</b>	<u>Assignment #4 due</u>		<b><u>Nov. 21</u></b>

11	Time Series Models	Chapter 12	
12	Panel Data Models	Chapters 13, 14	
13	Instrumental Variables	Chapter 15	
**13	Assignment #5 due		<b>Dec. 9</b>
	Final examination scheduled by the Registrar's Office.	a) All readings from Wooldridge	

**Prerequisites**

Economics 301 and 303 and 395; and Mathematics 249 or 251 or 265 or 281.

**Required Textbook(s)**

Wooldridge, Jeffrey M., Introductory Econometrics: A Modern Approach, 6<sup>th</sup> Edition, Cengage.

**Recommended Textbook(s)**

Wooldridge, Jeffrey M., Introductory Econometrics: A Modern Approach, 6th + MindTap® Economics, 1 term (6 months) Printed Access Card, Cengage.

**Optional Lab Book** - Pedace, *Econometrics for Dummies*, 2013 John Wiley & Sons

**Reserved Readings**

A. Colin Cameron & Pravin K. Trivedi, *Microeconometrics using Stata*, Revised Edition, Stata Press

Wooldridge, Jeffrey M., Introductory Econometrics: A Modern Approach, 6<sup>th</sup> Edition, Cengage.

Pedace, *Econometrics for Dummies*, 2013 John Wiley & Sons

**Course Requirements/Assessments:**

5 Assignments (see dates above)	30%
Midterm Exam (Nov. 1)	30%
Final Exam	40%

**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.

**Grade Determination and Final Examination Details**

Department of Economics Criteria for Letter Grades. Economics professors use the following criteria when assigning letter grades:

Grade	Grade Point Value	Description	Grade	Grade Point Value	Description
A+	4.00	Outstanding	C+	2.30	
A	4.00	Excellent-superior performance, showing-comprehensive understanding of subject matter	C	2.00	Satisfactory – basic understanding of the subject matter
A-	3.70		C-	1.70	Receipt of a grade point average of 1.70 may not be sufficient for promotion or graduation. (See

						individual undergraduate faculty regulations.)
B+	3.30			D+	1.00	
B	3.00	Good – clearly above average performance with knowledge of subject matter generally complete.		D	1.00	Minimal pass – marginal performance; generally insufficient preparation for subsequent courses in the same subject.
B-	2.70			F	0	Fail – unsatisfactory performance or failure to meet course requirements
				I	0	Incomplete – unsatisfactory (effective January 2007)

### Grading Scale

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

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

The format of the assignments and the midterm will be discussed during the first week of lectures. Late assignments will not be accepted.

Tests and exams **WILL NOT** involve multiple choice questions. **No** programmable- calculators, cellphones, tablets or laptops are allowed in any midterm or final exam. A non-programmable calculator **WILL** be allowed during the writing of the midterm and the final exam.

The midterm will be written during class time on November 1.

There will be a Registrar scheduled final examination, held in a classroom, lasting 2 hours. Please note that the following types of emails will receive **no response**: emails not addressed to anyone in particular; emails where the recipient's name is not spelled correctly; anonymous emails; emails in which the sender has not identified which course and section he/she is taking; and, emails involving questions that are specifically addressed on the course outline.

The use of cell phones for any purpose in class is prohibited. The classroom is a no cell phone zone. Laptops and tablets may only be used for note-taking purposes.

### Reappraisal of Grades

For reappraisal of graded term work, see Calendar I.2  
<http://www.ucalgary.ca/pubs/calendar/current/i-2.html>

For reappraisal of final grade, see Calendar I.3  
<http://www.ucalgary.ca/pubs/calendar/current/i-3.html>

A student who feels that a piece of graded term work (e.g., term paper, essay, test) has been unfairly graded, may have the work re-graded as follows. The student shall discuss the work with the instructor within 15 days of being notified about the mark or of the item's return to the class; no reappraisal of term work is permitted after the 15 days. If not satisfied, the student shall immediately take the matter to the Head of the department offering the course, who will arrange for a reassessment of the work within the next 15 days. The reappraisal of term work may cause the grade to be raised, lowered, or to remain the same. If the student is not satisfied with the decision and wishes to appeal, the student shall address a letter of appeal to the Dean of the faculty offering the course within 15 days of the unfavourable decision. In the letter, the student must clearly and fully state the decision being appealed, the grounds for appeal, and the remedies being sought, along with any special circumstances that warrant an appeal of the reappraisal. The student should include as much written documentation as possible.

### **Plagiarism and Other Academic Misconduct**

Intellectual honesty is the cornerstone of the development and acquisition of knowledge and requires that the contribution of others be acknowledged. Consequently, plagiarism or cheating on any assignment is regarded as an extremely serious academic offense. Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Students should examine sections of the University Calendar that present a Statement of Intellectual Honesty and definitions and penalties associated with Plagiarism/Cheating/Other Academic Misconduct, <http://www.ucalgary.ca/pubs/calendar/current/k-2.html>

### **Academic Accommodation**

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities Visit [www.ucalgary.ca/access/](http://www.ucalgary.ca/access/).

Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at <http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf>

### **Absence from an Exam**

THERE WILL BE NO MAKEUP OR DEFERRED EXAMS under any circumstances, nor may the exams be written early. Students unable to write the exams because of documented illness, family emergency, religious observance, or university-sanctioned event will have the weight shifted to the final examination; otherwise a grade of zero will be assigned. If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam

[www.ucalgary.ca/registrar/exams/deferred\\_final](http://www.ucalgary.ca/registrar/exams/deferred_final)

Under no circumstance will this be accommodated by the department.

### **Important Dates**

Please check: <http://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html>

Faculty of Arts Students' Association (F.A.S.A.):

Economics Department Representative

Office: SS 803, E-mail: [econrep@fasaucalgary.ca](mailto:econrep@fasaucalgary.ca) Web: [www.fasaucalgary.ca](http://www.fasaucalgary.ca)

Society of Undergraduates in Economics

[www.ucalgarysue.com](http://www.ucalgarysue.com)

Society of Undergraduates in Economics is a student run organization whose main purpose is to assist undergraduate economics students succeed both academically and socially at the University of Calgary. Services include access to the exam bank, career partnerships with the Career Centre through hosting industry nights and information sessions, recognizing achievements in teaching, and organizing social events for members. They invite you to join by contacting [sue@ucalgary.ca](mailto:sue@ucalgary.ca).

*Faculty of Arts Program Advising and Student Information Resources*

- Have a question, but not sure where to start? The Arts Students' Centre is your information resource for everything in Arts! Drop in at SS102, call them at 403-220-3580 or email them at [artsads@ucalgary.ca](mailto:artsads@ucalgary.ca). You can also visit the Faculty of Arts website at <http://arts.ucalgary.ca/undergraduate> which has detailed information on common academic concerns, including program planning and advice.
- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at 403-210-ROCK [7625] or visit them in the MacKimmie Library Block.
- Online writing resources are available at <http://www.ucalgary.ca/ssc/resources/writing-support>

### **Evacuation Assembly Point**

In case of an emergency evacuation during class, students must gather at the designated assembly point nearest to the classroom. The list of assembly points is found at <https://www.ucalgary.ca/emergencyplan/home/evacuation-assembly-points>

Please check this website and note the nearest assembly point for this course

### **Safewalk**

The Safewalk program provides volunteers to walk students safely to their destination anywhere on campus. This service is free and available 24 hrs/day, 365 days a year.

**Call 403-220-5333**

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