

Department of Economics Faculty of Arts

Economics 497(L01) (Econometrics II)

Instructor: Arvind Magesan Lecture Location: MS 211

Phone: 220-5276 Lecture Days/Time: MWF 12:00-12:50

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Office: 430

Office Hours: TBA WINTER 2016

Course Description

The purpose of this course is to introduce students to the fundamental issue of empirical economics: identifying and estimating causal effects. At the heart of any work in empirical economics is a simple question such as: do small class sizes cause students to perform better? Does increasing a country's income cause it to be more democratic? Does bigger equipment cause more injuries in hockey? Does increasing the minimum wage cause unemployment to increase? Do good looking workers earn more than their peers? While we would ideally run a controlled experiment to answer these questions, this is often not possible for questions that an economist is interested in. As such, to answer the questions we want to answer we need to use special methods and techniques. In this course we will develop and study these techniques as economists have used them to answer the questions they are interested in.

The course follows the textbook quite closely. Specifically, we will cover the following topics.

- 1. The Experimental Ideal (CH. 2)
- 2. The Simple Linear Model (CH. 3)
- 3. Instrumental Variables (CH. 4)
- 4. Panel Data: Fixed effects and Differences in Differences (CH. 5)
- 5. Regression Discontinuity Design (CH. 6)
- 6. Quantile Regression (CH. 7)
- 7. Additional Topics (Time Permitting)

Course Objectives/Learning Outcomes

By the end of the course, students should be able to read and critically analyze published empirical work in economics, as well as design and conduct credible empirical studies of their own. .

Prerequisites/corequisites

Econ 497 starts at a level that assumes familiarity with the material covered in Econ 495 and Stats 213, including proficiency at mathematical statistics and some calculus. We will make use of matrix algebra. While we review key results in class, students may find a review using econometric textbook appendices useful. 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.

Required Textbook(s)

Angrist and Pischke, *Mostly Harmless Econometrics: An Empiricist's Companion*. Princeton University Press.

Recommended Textbook(s)

None

Reserved Readings

Wooldridge, *Introductory Econometrics: A Modern Approach*, South-Western. Hohn, *Elementary Matrix Algebra*, Dover. Stock and Watson, *Introduction to Econometrics*, Addison-Wesley.

Course Requirements/Assessments:

Grades will be determined as follows:

Four Assignments – 30% Two Midterm Exams (in class on Feb. 12 and March 23) – 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	Description	Grade		Grade	Description	
	Point				Point		
	Value				Value		
A+	4.00	Outstanding		C+	2.30		
A	4.00	Excellent-superior performance, showing-comprehensive understanding of subject matter		С	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		
В	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	В	73 – 76	C-	60 – 62
Α	85 – 94	B-	70 – 72	D+	56 – 59
A-	80 – 84	C+	67 – 69	D	50 – 55
B+	77 – 79	С	63 – 66	F	0 – 49

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.

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

There will be a Registrar scheduled final examination, held in a classroom, lasting 2 hours. Non-programmable calculators WILL NOT be allowed during the writing of tests or final examinations.

Tests and exams WILL NOT involve multiple choice questions.

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.ucalgayr.ca/pubs/calendar/current/k.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/.

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 www.ucalgry.ca/policies/files/policies/student-accommodation-policy_0.pdf

Absence from a Quiz/Test/Exam

THERE WILL BE NO MAKEUP OR DEFERRED QUIZZES/TESTS/EXAMS under any circumstances, nor may the quizzes/tests/exams be written early. Students unable to write the quizzes/tests/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 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 Web: www.fasaucalgary.ca

Society of Undergraduates in Economics

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.

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. 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.ucalqary.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 www.ucalgary.ca/emergencyplan/assemblyponts

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