

Economics 615 Econometrics

Instructor: Daniel V. Gordon
Email: dgordon@ucalgary.ca

Lecture Location: SS 423
Lecture Days/Time: TR 12:30 – 13:45

Office: SS 325
Office Hours: TR 14:00-15:00

Fall 2018

Course Description:

This is a graduate econometrics course intended to provide a foundation of econometric theory relevant for carrying out empirical work in economics. The course will cover the linear regression model, nonlinear estimation techniques like generalized method of moments and maximum likelihood, simple panel data models, binary choice models and time series models.

Course Outline:

The purpose of this course is to advance students understanding of theoretical and applied issues in econometrics. The learning objective for students are to have a solid understanding of the theoretical framework that allows the statistical application and to be able to carry through with an empirical exercise of modelling, diagnostic checking, testing and forecasting. The course will emphasize model specification, identification and validation, discrete and limited dependent variable models, panel data models, and time-series structures.

Prerequisites:

Mathematical statistics or econometrics at the undergraduate level, a course in linear algebra, and a course in multivariate calculus. Or instructors' consent. Linear algebra and multivariate calculus will be used frequently. Knowledge of statistical distribution theory and inference is essential.

Prior to the start of class, students are to review basic multi-regression least squares procedures and hypothesis testing.

Required Textbook:

Greene, W.H., *Econometric Analysis* Eighth Ed. Pearson New York NY 2018

Recommended Textbooks:

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

Kennedy, P. *A Guide to Econometrics* 6ed. Wiley-Blackwell 2008

Reserve Readings:

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

Wooldridge, J.M., *Introductory Econometrics: A Modern Approach*, South-Western.

Wooldridge, J.M. *Econometric Analysis of Cross Section and Panel Data*, Second Edition, The MIT Press Cambridge MA

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 Requirements/Assessments:

Grades will be determined as follows:

Four Assignments (7.5% each) – 30%

One Midterm Exam (in class on Nov 8) – 30%

Final Exam – 40%

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 |
|-------|-------------------|---|
| A+ | 4.00 | Outstanding |
| A | 4.00 | Excellent-superior performance, showing-comprehensive understanding of subject matter |
| A- | 3.70 | Very good performance |
| B+ | 3.30 | Good performance |
| B | 3.00 | Satisfactory performance |
| B- | 2.70 | Minimum pass for students in the Faculty of Graduate Studies |
| C+ | 2.30 | All grades below "B-" are indicative of failure at the graduate level and cannot be counted toward Faculty of Graduate Studies course requirements. Individual programs may require a higher passing grade. |

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.

There will be a department scheduled final examination, held in a classroom, lasting 2 hours. Non-programmable calculators will be allowed during the writing of tests or final examinations.

Tests and exams will not involve multiple choice questions.

Absence from a Test/Exam

THERE WILL BE NO MAKEUP OR DEFERRED QUIZZES under any circumstances, nor may the quizzes be written early. Students unable to write the quizzes 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 Department, they need to arrange for a deferred exam with the department.

Reappraisal of Grades and Intellectual Honesty:

For reappraisal of graded term work, see Calendar 0.1

<http://www.ucalgary.ca/pubs/calendar/grad/current/qs-o.html>

For reappraisal of final grade, see Calendar 0.1. B

<http://www.ucalgary.ca/pubs/calendar/grad/current/qs-o.html>

Statement of Intellectual Dishonesty

<http://www.ucalgary.ca/pubs/calendar/grad/current/qs-r.html>

Plagiarism and Other Academic Misconduct

<http://www.ucalgary.ca/pubs/calendar/grad/current/qs-r.html>

Academic Accommodations:

The student accommodation policy can be found at: ucalgary.ca/access/accommodations/policy.

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities ucalgary.ca/policies/files/policies/student-accommodation-policy.

Students needing an Accommodation based on a Protected Ground other than disability, should communicate this need, preferably in writing, to the course instructor.

Important Dates:

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

Student Organizations:

Faculty of Grad Studies website: <http://grad.ucalgary.ca/home>

Graduate Students Association: <http://gsa.ucalgary.ca/>

Professional Development for Grad Students

Workshops and resources can be found at <http://www.ucalgary.ca/mygradskills/>

Economics Graduate Association: <http://econ.ucalgary.ca/ega/>

Evacuation Assembly Point:

In case of an emergency evacuation during class, students must gather at the designated assembly point nearest to the classroom. The assembly point for this classroom is the Professional Faculties Food Court.

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.**

Freedom of Information and Protection of Privacy (FOIP) Act:

Personal information is collected in accordance with FOIP. For more information, see <http://www.ucalgary.ca/legalservices/foip/foip-hia>.

Internet and Electronic Communication Device information:

The use of cell phones for any purpose in class is prohibited. Computers and tablets may be used for note-taking only.

DG

08/01/2018