

## Economics 395 (L01) (Use of Statistics in Economics)

Instructor:	Pamela Campa	Lecture Location:	ICT 114
Phone:		Lecture Days/Time:	MWF 12:00 – 12:50
Email:	pcampa@ucalgary.ca		
Office:	SS 422		
Office Hours:	By appointment		Winter 2018

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### Course Description:

In this course we will learn how economists use notions and tools from the discipline of statistics to study economic relationships of interest. To this end, in the first part of the course we will recapitulate some fundamentals of probability and statistics. In the second part we will describe the type of data that are used in economics. In the last part of the course we will study estimation and inference in the simple regression model. In concluding, we will discuss, in an intuitive manner, the issues associated with the establishment of causality in economics.

In the laboratory you will be solving problems using the statistical software *Stata*.

### Course Objectives/Learning Outcomes:

The goal of the course is to introduce you to how economists use Statistics in order to answer questions of interest in the Economics discipline. At the end of the course, you will be able to understand the fundamentals of regression analysis, which will allow you to (a) formulate an economic problem in terms of a linear regression and (b) interpret a regression output. The laboratory will teach you how to build a dataset in *Stata* and how to run simple regression analysis.

### Course Outline:

#### **Section 1: Fundamentals of Probability and Statistics**

Topics covered include: Random variables, probability distributions, density function, expectation, variance, conditional expectation

#### **Section 2: The nature of econometrics and economic data**

Cross-sectional data, Time-series data and Longitudinal Panel data

#### **Section 3: Regression Analysis with Cross-Sectional data**

Topics covered include: the simple regression model, estimation, inference

### Prerequisites/corequisites:

Economics 201 and 203 and Statistics 205, 211 or 213

### Required Textbook(s):

Woolridge, *Introductory Econometrics*, 2015

**Books on Reserve:**

Woolridge, Introductory Econometrics, 2015

**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:**

Midterm Examination: 30%. 1 in-class midterm.

Home Assignments: 15%. 4 short assignments. Students are strongly encouraged to work on the home assignment in groups of maximum 2. Late submissions are not accepted. If you are unable to submit the assignment by the due date the weight of the assignment will be automatically shifted to the final examination

Class Participation: 5%

Lab attendance: 5%

Final Exam: 45%

The following numerical grading scale will be used.

*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.

As per the Writing Across the Curriculum Statement in the Calendar, writing and grading thereof will be a factor in the evaluation of student work.

Any student work which remains undistributed after the last day of classes will be available to students through the instructor's office during her office hours.

The final examination will be comprehensive, scheduled by the Registrar, held in a classroom, and last 2 hours. 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.

Tests WILL NOT involve multiple choice questions. Non-programmable calculators WILL be allowed during the writing of tests or final examinations.

The exact date for the in-class midterm will be announced at least one week in advance.

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.

**Reappraisal of Grades and Intellectual Honesty:**

*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>

*Statement of Intellectual Dishonesty, see Calendar K.4*

<http://www.ucalgary.ca/pubs/calendar/current/k-4.html>

*Plagiarism and Other Academic Misconduct, , see Calendar K.5*

<http://www.ucalgary.ca/pubs/calendar/current/k-5.html>

**Academic Accommodations:**

The student accommodation policy can be found at: [ucalgary.ca/access/accommodations/policy](http://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](http://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/current/academic-schedule.html>

**Student Organizations:**

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

Economics Department Representative

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

Society of Undergraduates in Economics:

<https://www.ucalgarysue.com/>.

Society of Undergraduates in Economics is a student run organization whose main purpose is to assist undergraduate economics students to succeed both academically and socially at the University of Calgary. Services include access to the exam bank, career events such as Industry Night and information sessions, mentorship programs, and social events for members. They invite you to join by contacting SUE at [societyofundergradsineconomics@gmail.com](mailto:societyofundergradsineconomics@gmail.com).

**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 assembly point for this classroom is Social Science – 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.

PC

2017-10-22