

## Economics 669(L01) (Empirical Industrial Organization)

Instructor: Eric Mbakop  
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Lecture Location: SS423  
Lecture Days/Time: MW 11:00-12:15

Office: SS420  
Office Hours: TBA

Fall 2019

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### Course Description:

This course will introduce students to the application of state of the art econometric techniques to problems in Industrial Organization, specifically, to competition and anti-trust.

### Course Objectives/Learning Outcomes:

By the end of the course, students will be able to take data from an industry and combine econometric tools with basic IO theory to answer key questions about competition in that industry. Importantly, students will be able to identify and communicate the major assumptions required to provide answers to empirical questions in a given context, as well as the sensitivity of their results to these assumptions.

PhD students taking this course will additionally become well-versed in the academic literature on empirical IO. A more detailed reading list for PhD students will be made available on the first day of lecture. PhD students will have different problem sets and exams from MA students.

### Course Outline:

1. Review of basic consumer theory and theory of the firm. (1 week).
2. Introduction to Regression and Causal Identification in IO. Application to demand and supply. (1 week)
3. Market Definition. (1 week)
4. Estimation of Primitives in IO (5 weeks)
  - Demand Functions
  - Cost and Production Functions
5. Market Structure and Price (3 weeks)
  - Framework and notions of equilibrium
  - Entry and Exit
6. Identification of Conduct and Damage Estimation (2 weeks)

### Prerequisites/corequisites:

This course is a complement to ECON 667 and MA students in particular are strongly recommended to take this course as well.

**Required Textbook(s):**

*Quantitative Techniques for Competition and Antitrust*. Peter Davis and Eliana Garces.

**Recommended Textbook(s):**

*Industrial Organization: A Strategic Approach*. Jeffrey Church and Roger Ware. (This is the textbook for ECON 667, and much of the theory used in this class is covered in this book)

PhD students and interested MA students looking for more IO theory will find Jean Tirole's *Theory of Industrial Organization* useful.

More econometrics resources will be provided in class.

**Books 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.

**Grade Determination and Final Examination Details:**

MIDTERM EXAM	20%
FINAL EXAMINATION	40%
Assignments	<u>40%</u>
	100%

*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 his 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 and exams 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.

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

Personal information is collected in accordance with FOIP. Assignments can only be returned to the student and will be accessible only to authorized faculty and staff. For more information, see <http://www.ucalgary.ca/legalservices/files/legalservices/faq-students.pdf> and [http://www.ucalgary.ca/legalservices/files/legalservices/faq-faculty\\_0.pdf](http://www.ucalgary.ca/legalservices/files/legalservices/faq-faculty_0.pdf).

**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 unless otherwise authorized by the instructor.

**Copyright Legislation:**

See the University of Calgary policy on Acceptable Use of Material Protected by Copyright at [www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf](http://www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

**Important Dates:**

Please check: <http://www.ucalgary.ca/pubs/calendar/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/>

**Student Support and Resources:**

- See <https://www.ucalgary.ca/registrar/registration/course-outlines> for information on campus mental health resources, the Student Ombuds' Office, Student Success Centre, Safewalk, and Emergency Evacuation and Assembly.
- Online writing resources are available at <https://ucalgary.ca/student-services/student-success/writing-support>.
- 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.