

## Economics 757(L01) (Microeconomic Theory II)

Instructor: Dimitri Migrow  
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Lecture Location: SS423  
Lecture Days/Time: MW 11:00-12:15  
Tutor: Mojtaba Eslami (office hours: W 12:30-  
14:00 in SS405)  
Tutorial: M 15:30 – 17:00 in SS423

Office: SS448  
Office Hours: M 13:00-14:00

(Winter 2020)

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### Course Description:

This is the second course in the PhD Micro sequence. We focus on non-cooperative game theory and develop methods to analyze how agents' make decisions which are influenced by the decisions of other agents. We apply game theory to analyze strategic and informational issues. The more detailed course description follows in the first week of the course.

### Course Outcomes:

By the end of the course, students will be able to solve for and characterize the properties of the equilibria of standard models in game theory and information economics, as well as apply the tools of microeconomic theory to interesting problems in economics.

### Course Outline:

1. Simultaneous Games of Complete Information
2. Simultaneous Games of Incomplete Information
3. Extensive Games of Complete Information
4. Extensive Games of Incomplete Information
5. Information Design and Communication
6. Signalling and Screening

The detailed course outline is provided in the first lecture.

### Prerequisites/corequisites:

Econ 707

### Required Textbook(s):

An Introduction To Game Theory (Osborne)  
Microeconomic Theory (Mas-Collel, Whinston, Green)  
A Course in Game Theory (Osborne and Rubinstein)

### Recommended Textbook(s):

Game Theory (Fudenberg and Tirole)

Advanced Microeconomic Theory (Jehle and Reny)  
 Game Theory for Applied Economists (Gibbons)

**Books on Reserve:**

An Introduction To Game Theory (Osborne)  
 Microeconomic Theory (Mas-Collel, Whinston, Green)

**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.

**Lectures/Tutorial/Office Hours:** The lectures are now video-recorded in advance. You can access the lectures on D2L, under the link “video-lectures”.

The tutorial takes place via ZOOM, and the TA will be sending the corresponding link to a ZOOM meeting in advance.

The office hours will take place using ZOOM. The link to a doodle-poll with available time slots will be sent in advance.

**Grade Determination/Assessment:**

Assignments	20%
Midterm I (TBA)	15%
Midterm II (TBA)	15%
Final	50%

Midterm 2 is replaced by a take-home exam. It will be posted online on March 23, and to be submitted to Dr Migrow per email by April 6<sup>th</sup>, 3pm.

**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.

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

The final exam “in-class” is replaced by a take-home exam. The submission date for the final exam is April 23<sup>rd</sup>, 3pm, to Dr Migrow’s email. The exam tasks will be posted two weeks in advance.

Midterm date: tba in the first day of the class

### **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 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:**

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. 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>.

### **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.

**Notes:**

Students are responsible for all assigned material, e.g., supplementary material posted on D2L, regardless of whether or not the material was covered in class.

DM

2019-12-02