



UNIVERSITY OF  
CALGARY

## Department of Economics Course Outline

		<b>Term:</b>	Fall 2013
<b>Course:</b>	Economics 373 [Game Theory and Strategic Thinking for Social Sciences]	<b>Section:</b>	01
<b>Time:</b>	MWF 13:00-13:50	<b>Place:</b>	A 140
<b>Instructor:</b>	B. Curtis Eaton		
<b>Office:</b>	SS 406	<b>Telephone:</b>	220-2672
<b>Office Hours:</b>	W 8:00-10:00	<b>E-mail:</b>	<a href="mailto:eaton@ucalgary.ca">eaton@ucalgary.ca</a>
<b>Textbook(s):</b>			

**Required:** Carmichael, Fiona. A Guide to Game Theory, Prentice Hall, 1<sup>st</sup> edition, 2005.

### Book(s) on Reserve:

None

**Course Outline:** Chapter references in the following outline are to Carmichael's excellent textbook.

1. Introduction to games and strategic thinking (Chapters 1 and 2)
2. Prisoner's dilemma games (Chapter 3)
3. Sequential move games (Chapter 4)
4. Imperfect information (Chapter 5)
5. Mixed strategies and evolutionary games (Chapter 6)
6. Asymmetric information (Chapter 7)
7. Repeated games (Chapter 8)
8. Bargaining theory (Chapter 9)

I will provide detailed lecture notes. These notes are as important as the textbook.

### Grade Determination and Final Examination Details:

There will be one midterm exam (worth 30%), a final exam (worth 30%), and approximately 10 in-class quizzes (worth 40%). Students who are unable to write the midterm because of an illness, family emergency or religious observance will have the midterm weight shifted to the final examination. Documentation **MUST** be provided. The two lowest quiz marks will be ignored.

The midterm exam and the weekly quizzes are designed to reward **diligence**. In particular, most students who diligently prepare for the weekly quizzes will go into the final exam with a sound mark, somewhere in the B to A range. On the other hand, students who do not take the time to

prepare for the weekly quizzes will go into the final exam with a weak mark, or will have dropped the course before the final exam.

The final exam is designed to reward **creative problem solving**. Students will find it significantly more difficult than the quizzes and midterm exam, and the average grade will be significantly lower, somewhere in the C range if past experience is any guide.

All work will be marked on a numerical basis, then aggregated, and converted to letter grades. The following *grade conversion chart* is an approximate guide to letter grade equivalents.

A+	96 – 100	B	76 – 80	C-	56 – 60
A	91 – 95	B-	71 – 75	D+	51 – 55
A-	86 – 90	C+	66 – 70	D	46 – 50
B+	81 – 85	C	61 – 65	F	<45

Calculators will not be allowed during the writing of tests and final examinations. There will be a Registrar scheduled final examination, lasting 2 hours and held in a classroom. Tests and exams will not involve multiple choice questions.

Students' Union Vice-President Academic:

Emily Macphail

Phone: 403-220-3911

E-mail [suypaca@ucalgary.ca](mailto:suypaca@ucalgary.ca)

Students' Union Faculty Representative (Arts)

Phone: 403-220-3913 Office: MSC 251

E-mail [arts1@su.ucalgary.ca](mailto:arts1@su.ucalgary.ca), [arts2@su.ucalgary.ca](mailto:arts2@su.ucalgary.ca), [arts3@su.ucalgary.ca](mailto:arts3@su.ucalgary.ca), [arts4@su.ucalgary.ca](mailto:arts4@su.ucalgary.ca)

Society of Undergraduates in Economics (S.U.E.):

[www.ucalgary.ca/sue](http://www.ucalgary.ca/sue)

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](mailto:sue@ucalgary.ca).

*Faculty of Arts Program Advising and Student Information Resources*

- Have a question, but not sure where to start? The Faculty of Arts Program Information Centre (PIC) 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.

- For program planning and advice, contact the Student Success Centre (formerly the Undergraduate programs Office) at 403-220-5881 or visit them on the 3<sup>rd</sup> Floor of the Taylor Family Digital Library.
- 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://ucalgary.ca/ssc/writing-support/online-writing-resources>

## Notes:

- It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at 403-220-8237. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course.
- Students seeking reappraisal of a piece of graded term work should discuss their work with the instructor *within fifteen days* of work being returned to class.

Safewalk / Campus Security: 403-220-5333  
Emergency Assembly Point: Social Sciences Food Court  
\* \* \* \* \*

CE/lk