



## Department of Economics Course Outline

**Term:** Summer 2006

**Course:** Economics 611.32  
[Topics in Game Theory]

**Section:** L60

**Time:** T 09:30

**Place:** SS 406

**Instructor:** B.Curtis Eaton

**Office:** SS 406

**Telephone:** 220-2672

**Office Hours:** By Appointment

**E-Mail:** [eaton@ucalgary.ca](mailto:eaton@ucalgary.ca)

### Textbook(s):

Martin J. Osborne, An Introduction to Game Theory, Oxford University Press, 2004  
Prajit K. Dutta, Strategies and Games, The MIT Press, 1999

### Book(s) on Reserve:

None

### Course Outline:

The fundamentals of non-cooperative game theory will be covered in this course, with special application to problems in evolutionary game theory. The course will cover games of perfect and imperfect information, games with simultaneous moves, and games with sequential moves. The following equilibrium concepts will be covered: Nash equilibrium, Bayesian Nash equilibrium, subgame perfect Nash equilibria. In addition we will cover evolutionarily stable strategies and evolutionarily stable preferences.

The course will be conducted as a seminar. There will be five written assignments, and seminar discussion will focus on these assignments. Students will be responsible for leading seminar discussions.

### Grade Determination and Final Examination Details:

In determining the final mark, each of the five assignments will get a weight of 15% and the overall performance in leading discussions will get a weight of 25%. There will be no final examination.

Students' Union Academic Commissioner (Social Sciences)

Shannon O'Connor

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**Notes:**

- Students seeking reappraisal of a piece of graded term work (term paper, essay, etc.) should discuss their work with the Instructor within two weeks of the work being returned to the class.

Safewalk / Campus Security: 220-5333

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