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Winter 2010

ECON 6100: TOPICS IN MICROECONOMIC THEORY

Course Description:

The topic of the course this year will be game theory.

Lecture Schedule:

Tuesday: 11:30-1:00 in VH 2000
Thursday: 11:30-1:00 in RS 104

Main Textbook:

Martin J. Osborne and Ariel Rubinstein, 1994; *A Course in Game Theory*, M.I.T. Press

The complete textbook and the solutions to the exercises are freely accessible on the Website the authors maintain at
<http://www.economics.utoronto.ca/osborne/cgt/index.html>

Additional Books: The interested student may also consult the following books.

Drew Fudenberg and Jean Tirole, 1992, *Game Theory*, MIT Press

Roger B. Myerson, 1991, *Game Theory*, Harvard University Press

Guillermo Owen, 1995, *Game Theory*, Academic Press

Eric van Damme, 1991, *Stability and Perfection of Nash Equilibria*, Springer-Verlag

Web Site:

I will post announcements about the course at <http://dept.econ.yorku.ca/~blebrun>

Course Outline:

Strategic games

Nash equilibrium

Mixed, correlated, and evolutionary equilibrium

Rationalizability and iterated elimination of dominated actions

Extensive games with perfect information

Extensive games with perfect information

Repeated games

Implementation theory

Extensive games with imperfect information

Extensive games with imperfect information

Sequential equilibrium

Coalitional games

Grading:

There will be two examinations: one mid-term and one final. Your mark on the mid-term examination will count for one third of your total mark for the course only if your mark on the mid-term is higher than your mark on the final. Otherwise, your mark on the final will be your total mark for the course. If, for any reason, you do not write the mid-term, your mark on the final will again be your total mark for the course.

The mid-term examination will be held in class time on Tuesday February 23rd. The final examination will be held during the exam period (April 7th to April 23rd).