Course synopsis

Econ 485 is an upper division undergraduate course in microeconomic theory. The goal is to give a rigorous introduction to the main concepts of game theory: strategy, solution concepts for games, strategic behavior, commitment, cooperation, and incentives. The course emphasizes the applications of the theory as much as the theory itself. Most of the applications will focus on economics, for example: oligopoly theory, bargaining theory, and contract theory.

Overload information

Prerequisite: either MATH 112, MATH 124, MATH 127, MATH 134, or MATH 145; 2.0 in ECON 300. However, a few spots are usually reserved for non-economics majors. There will also be a waiting list on the first day of classes in case someone drops the class during the first couple of days.

Learning goals

At the end of the course, the students should be able to

- build games that represent common economic situations.
- understand standard economic models based on simple game theory
- apply standard solution concepts to static games, dynamic games, repeated games and games of incomplete information.

Textbooks:


Other textbooks:


*Game Theory*, by Fudenberg and Tirole, MIT Press, 1991. This is the "bible" for game theorists but sometimes challenging to follow.

*Playing for Real*, by Ken Binmore, Oxford Press, 2007. A very good book, all online:


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**Course Requirements**

Grades are based on four quizzes, non-graded problem sets (see below) and class participation. Each quiz is cumulative.

- The first quiz, worth 15% of the grade, will be on Monday June 29, 2015.
- The second quiz, worth 20% of the grade, will be on Tuesday July 7, 2015.
- The third quiz, worth 25% of the grade, will be on Tuesday July 14, 2015.
- The fourth quiz, worth 30% of the grade, will be on Tuesday July 21, 2015.

(those dates are subject to changes)

- Your class participation will count for 5% of your grade.
- The problem sets will also count for 5%.
The Economics department has a policy on academic conduct and academic honesty. Please be familiar with it: 
http://econ.washington.edu/undergrad/academic_conduct/