ECO 316 H1S: Applied Game Theory

Department of Economics
University of Toronto
Summer 2014

Instructor: Erhao Xie

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Room: 150 St. George Street (Max Gluskin House), Room 248

Office Hour: Monday 9 to 11 am, Room GE 213 (Economics Department)

Teaching Assistant: Adam Miettinen

Lecture Times: Monday and Wednesday 6 to 8 pm at LM 161

Tutorial Times: Monday and Wednesday 8 to 9 pm at LM 161

Course Description:

Game theory is an aspect of economics that studies behavior of individual (i.e. consumers, firms, and governments) when his/her payoff also depends on other individual's behavior. This course aims at providing an introduction to Game Theory and its application to economics and politics. We will learn several basic concepts and models that are designed to explain economic, social, and political phenomena. You can also use those models to predict what individuals will do in some particular situations.

Prerequisite: ECO200Y1/ECO204Y1/ECO206Y1

Exclusion: ECO326H1, ECO326H5

This course also requires basic calculus and probability theory. For instance, integration, derivative, and probability distribution. It would better that you review these materials before you attend the lecture.

Textbook:

An Introduction to Game Theory by Martin Osborne (Oxford University Press, New York, 2003), ISBN-13: 978-0195128956

Evaluation:

Your final grade will depend on one **Mid-Term test** (40% of final grade) and one **Final Exam** (60% of final grade). Moreover, if your mid-term's grade is higher than final, both exams take 50% of final grade.

The Mid-Term test would be written On July 21, in class.

Final Exam is during university exam period.

Problem Set:

I would post problem set online and Adam would cover it during the tutorials. Only part of solutions would be post online. So make sure that you attend tutorials to learn the materials. The problem sets are not graded but they would benefit your exam a lot.

Course Materials:

The lecture slides used in this course and problem sets are from Professor Osborne, the copyright is his, not mine.

Email Policy:

I would respond your email in 24 hours during weekday and 48 hours at weekend. The question in your email should be answered in several sentences. For question need detailed explanation or graph, you have to go to the office hour. Moreover, my email filter may exclude email without institutional address (i.e. gmail, hotmail). So please make sure that you send email from an official U of T email account.

Re-grading:

You can submit re-grading request if you find your test is mis-graded. Please make sure you submit the request **in one week** after you receive the test. You are eligible for re-grading only if you write the test using a pen. If you write it by pencil, you cannot get re-grade. Moreover, the re-grade is based on entire exam, not only one particular question, so your grade may be lower after re-grade.

Acceptable Medical Notes:

The only acceptable medical note is a fully completed University of Toronto Medical Certificate. It must be original and completed by a qualified medical doctor (not an acupuncturist, chiropractor, or other health care professional). The doctor's OHIP registration number must be provided on the note.