ECON6213 Microeconomics II

Spring 2016

Instructor: Dr. Qihong Liu  
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Class Time: T/R, 9-10:15am  
Classroom: Cate Center CCD1 338
Office Hours: T/R, 3-4pm and by appointment
Website: https://learn.ou.edu

Course Description

This is the second graduate course in microeconomic theory. It consists of two main parts: noncooperative game theory (Part 1) and market equilibrium with asymmetric information (Part 2). In Part 1, we will first study the basic elements of games, then analyze static and dynamic games of complete and incomplete information. We will discuss their various economic applications. In Part 2, we will study market equilibrium with asymmetric information. We will start from the problems of information asymmetry and adverse selection, and investigate how markets and institutions develop in response to these problems. We will then analyze the principal-agent problem. Applications of the theoretical developments will be discussed.

Textbooks

Required:

Recommended:

Assessment

Grades are based on homework (20%), class participation (10%), midterm (30%) and final exam (40%). You are encouraged to form study groups to discuss homework and lecture materials. All exams will be in closed-book forms.

Problem Sets

Several problem sets will be assigned during the semester. You will have at least one week to complete each assignment. Late homework will not be accepted. You are encouraged to work
with other students in this class on the problem sets, but each student must write his or her own answers. Each student is also required to write the names of the other students he or she worked with on each homework assignment.

**Exam Dates**
Midterm – Thursday, March 10
Final – Tuesday, May 10, 8-10am

**Tentative Outline**

MWG=Mas-Colell, Whinston and Green. Approximate number of lectures to cover each chapter is listed in parenthesis.

1. Basic Elements of Noncooperative Games. MWG 7 (3)
   
   (ii) Extensive form games. MWG 7.C
   (iii) Normal form games. MWG 7.D
   (iv) Randomized choices. MWG 7.E

2. Simultaneous-Move Games and Applications. MWG 8 (6)
   
   (i) Dominant and dominated strategies MWG 8.A-8.C
   (ii) Nash equilibrium. MWG 8.D
   (iii) Economic applications of NE.
   (iv) Games of incomplete information: BNE. MWG 8.E
   (v) Economic applications of BNE.
   (vi) Refinement of NE: Trembling hand perfection. 8.F

3. Dynamic Games and Applications. MWG 9 (8)
   
   (i) Sequential rationality, backward induction and subgame perfection. MWG 9.B
   (ii) Economic applications of SPNE.
   (iii) Beliefs and sequential rationality. MWG 9.C
