EC308, Spring 2009
Game Theory in Economics (T,TH 12:00-1:20)
Cushing 335
Instructor: Hideo Konishi
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(Office Hours) M 1:00-3:00

COURSE DESCRIPTION

Game Theory is the social science that analyzes how to think (and act) strategically in interactive situations. This course presents Game Theory with its applications to the real world situations. Although applications of Game Theory are a lot of fun, you also need to study hard to become familiar with techniques used in Game Theory. They could involve a certain level of mathematics (calculus and logic). Logical ways of thinking is particularly important. Without understanding the theory properly, you cannot apply insights from it to the real world situations appropriately. We begin with analyzing a few basic games: sequential move games, simultaneous move games, and their mixtures. After that, we proceed to broader classes of games, and discuss more applications. You are not supposed to take this course if you have not finished Microeconomic Theory (EC201) beforehand.

TEXTBOOK

There is one required textbook for this course, Games of Strategy by A. Dixit and S. Skeath (Norton, 2nd edition). While the lectures will be mainly based on the textbook, some lectures will contain materials which are not presented in the book (I will give out some handouts). The bookstore should carry enough copies of the textbook. There are two more recommended books. One is Thinking Strategically by A. Dixit and B. Nalebuff (Norton). This is a book with many interesting stories, but no formal theory is introduced. The other is Game Theory
for Applied Economists by Robert Gibbons (Princeton). This book is technically advanced (a first year graduate level textbook), yet is still quite readable. These books are nice complements of the textbook.

GRADE

Your grade will be based on your performance on two midterm exams, a final exam, and homeworks. Homework will count for 10% of your course grade. The remaining 90% will be divided up between two exams: the midterm and final exam scores will count for 30% and 60%, respectively. The final is a cumulative exam. The midterm is an in-class exam and is scheduled on February 24 (Tuesday), and the final exam is scheduled on May 9 (Saturday) at 9:00am. In principle, no make up exam will be given. A student will not be allowed to take a make up exam unless he/she asks for it in advance for compelling reasons. You may work on homework problems with other students, but you are required to make up the answers independently.

TENTATIVE SCHEDULE OF THE COURSE

Note that the course schedule may change


2. After the Midterm exam (advanced theory and applications): parts of Chapters 9, 10, 11, 12, 15.