National Chung Cheng University
Department of Economics
Introduction to Game Theory, Fall 2013
Instructor: Meng-Chi Tang

This is a game theory course designed for undergraduate students with a basic understanding of microeconomics and mathematical economics. The object of this course is to have students thinking strategically with the tools developed in the field of game theory. Course-related activities/games will be introduced constantly where students can learn the theories from playing the games and develop their ability to apply strategically thinking into practice. We will put focus on the intuition behind every concept while only the necessary mathematical tools will be introduced for formal analysis.

Office Hour

Wednesdays 14:00-16:00 at Room 524, College of Management. You can also find me via ecdmct@ccu.edu.tw. Regularly check the course website, http://ecourse.elearning.ccu.edu.tw/, will also be helpful.

Teaching Assistant

The TA of this course is Howard Hsu. You can find him during his scheduled help room hours or via his email, howardhsumail@gmail.com. He will also teach a recitation class every other Thursday from 17:00 to 17:30, and a review session before each midterm and final exam.

Textbooks

1. *Suggested*: Watson, Joel, *Strategy: An Introduction to Game Theory*, 3rd Edition, New York : W.W. Norton, 2013.

2. *Stories*: Harrington, Joseph E. Jr., *Games, Strategies, and Decision Making*, Worth Publishing, 2009.

3. *Numerical examples*: Osborne, Martin, *An Introduction to Game Theory*, Oxford University Press, 2009.

We will use Watson's textbook as the main reference of this course. Stories from Harrington's book and numerical examples from Osborne's books will also be referred when helpful. These books are reserved in the library as references, and you are not required to buy them before you found it necessary.

<u>Study Group</u>

Students are encouraged to study as a group of 3 to 4 people, depends on the class size. Some assignments and the term paper will be asked to work together and turned in as a group.

<u>Term Paper</u>

The term paper asks you to apply a model that you learned from the class to explain an event/story from your daily life or the latest news. For example, you can apply the Cournot model to explain the competition you observed at the Da-Chih market, or apply the prisoner's dilemma to Taiwan's relationship with China and US. You have to explain what is the story/problem you want to discuss and why it is interesting; what is the theory you want to apply and why it is suitable; how you analyze the case; and what is your main insight and results.

<u>Grades</u>

Your course grade will be determined by the scores of your coursework, term paper, two midterms and a final exam. Basically, an exam is held after every four classes. Class participation and coursework will be helpful if your final score is on the margin. The dates and weights of each assignment are set as below:

Requirement (total points)	Date
Coursework (10)	Once two weeks
Midterm exam I (25)	October 24, 2013
Midterm exam II (25)	November 28, 2013
Final exam (30)	January 9, 2013
Term paper (10)	January 21, 2013