

**ECON 5001**  
**Game Theory**

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Office hours: WF 11:10 – 12:10

Autumn 2012  
Classroom: 0160 Macquigg Lab  
Class time: MWF 1:50 – 2:45

**Grader:** Youngsoo Jang (389 Arps Hall, jang.201@osu.edu)  
**Office hours of grader:** M 3:00 – 4:00

**Class website:**

The web site for the course is [www.carmen.osu.edu](http://www.carmen.osu.edu). Your grades, and many of the course materials will be posted at that site.

**Textbook**

An Introduction to Game Theory, Martin Osborne

Additional Reading, not required:

Game Theory for Applied Economists, Robert Gibbons

**Tentative Course Schedule**

Topic	Readings
Nash Equilibrium	Ch 2, 3
Mixed Strategy	Ch 4
Extensive Form Games	Ch 5, 6, 7
<b>Midterm Exam</b>	<b>OCT 5</b>
Bayesian Games	Ch 9
Extensive Games with Imperfect Information	Ch 10
Repeated Games	Ch 14, 15
Rationalizability	Ch 12
Bargaining	Ch 16
<b>Final Exam</b>	All Chapters Covered

## Assessment

For learning and evaluation purposes, there will be *homework* and two *exams*.

The *homework assignments* provide opportunities for practicing the course subject and assessing your learning. The problem sets will be available on the course's webpage. You can work on the homework on groups of maximum four students, but each of you should write up your own answers without help of others. The groups do not need to be fixed over the semester but you should acknowledge the people you work with for each assignment at the first page of each assignment. The deadline for submitting each problem set will be at the start of the lecture on the due date. Late submission is not possible.

There will be a *midterm* and a *final* exam. The *final* Exam will be cumulative, but more weight will be given to the material after the *midterm* Exam. The midterm and final exams will both be closed book. If you must miss an exam for a valid reason, according to the university rules of conduct, you must provide appropriate documentation. I may offer a make-up exam or shift the weights of your other assignments based on my discretion.

The overall grade in this course will be based on the distribution curve of total scores for the class. There will be a minimum passing grade (lowest D) of 35% of the course maximum (score of 35 out of 100). The lowest C- grade will be 50% of the course maximum (score of 50 out of 100). Approximately the top 20% of the class, as determined by the total course score, will receive an A or A-. However, the percentage of students receiving A or A- maybe higher if more than 20% of the students receive more than 90 percent of the total possible points. Approximately the next 30%, as determined by the total course score, will receive a B+, B, or B-. Again, a grade of minimum B- is guaranteed for students who receive more than 75% of the total possible points. The remainder of the class receiving a total score of 50 or more will be divided equally between C+, C, and C-. The total score will be a weighted sum of the results of quizzes, homework assignments, class participation, and exams.

The weights of various components of the total score are as follows:

<i>Homework</i>	20%
<i>Class Participation</i>	5%
<i>Midterm</i>	35%
<i>Final</i>	40%

## **Economics Learning Center**

The Department of Economics runs the Economics Learning Center, where advanced undergraduates provide **free** tutoring for students in Economics 2001, 2002, 4001, and 4002. Assistance with other classes is frequently available. The Economics Learning Center is located in 311 Arps Hall (1945 North High Street) and is typically open from 9AM-5PM Monday-Friday starting the second (full) week of the quarter. Note that the purpose of the tutoring center is **not** to provide answers to assignments, but to help students learn economics. As the student, you are ultimately responsible for all course work you submit.

## **Academic Misconduct**

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct ([http://studentaffairs.osu.edu/resource\\_csc.asp](http://studentaffairs.osu.edu/resource_csc.asp)).

## **Disability Services**

**Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated, and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292-0901; <http://www.ods.ohio-state.edu/>.**