## ECON 212: Game Theory (Fall Term, 2019)

### Instructor
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### Class
TR 10:30am-12pm  
Room: GLAB 101

There will be **no class** on Sept. 17 or Nov. 26 (the lecture right before Thanksgiving Break). Please use this time to get caught up if you are behind!

### Texts

### Prerequisites
Econ 101 and Math 114/115 in a previous semester.

### Lecture Notes
Posted on Canvas.

### Problem Sets
There are six problem sets, and these are due on:  
- Problem Set 1: Friday, 09/06  
- Problem Set 2: Friday, 09/20  
- Problem Set 3: Friday, 10/4  
- Problem Set 4: Friday, 10/25  
- Problem Set 5: Friday, 11/15  
- Problem Set 6: Friday, 12/6

No late submissions are allowed, but your lowest problem set score will be dropped when computing your course grade.

### Grading
There will be **two midterms** and one **final exam**. The final exam is worth 35% of the total grade, each midterm is worth 20%, and each problem set is worth 5%.

Students have two weeks from the day in which examinations are returned to report errors in grading and/or to request that problems be re-graded. If a student submits his/her exam for re-grading, then the student’s entire exam will be re-graded (with no guarantee of a higher total score).

### Exam Dates
**Midterms:** Oct. 1 and Nov. 5 (in class). The lectures before the midterms (Sept. 26 and Oct. 31) will be reviews.  
**Final Exam:** Tentative date is Dec. 12.
There may be small adjustments made to this schedule during the semester. Please check on Canvas for the most recent version.

- Lecture 1: Extensive form, strategies.
  - Required reading: Watson, Chapters 1-3
- Lecture 2: Normal form, beliefs.
  - Required reading: Watson, Chapters 3-4
- Lecture 3-4: Best Response, Rationalizability
  - Required reading: Watson, Chapters 6-8
- Lecture 5-6: Mixed Strategies, Nash Equilibrium
  - Required reading: Watson, Chapters 9-12
- Lecture 7-8: Backwards Induction, Subgame-Perfection
  - Required reading: Watson, Chapters 14-15
- Lectures 9-11: Repeated Games
  - Required reading: Watson, Chapters 22-23
- Lectures 12-13: Bayesian Equilibrium
  - Required reading: Watson, Chapters 24 and 26
- Lectures 14-15: Auctions
  - Required reading: Watson, Chapters 27
- Lectures 16-18: Perfect Bayesian Equilibrium, Signaling Games
  - Required reading: Watson, Chapters 28-29
- Lecture 19: Extra Topic 1—Knowledge
- Lecture 20: Extra Topic 2—Matching