Textbooks. The text for the course is:


Another text is available if you wish additional reading:

*Games, Strategies, and Decision Making*, Joseph E. Harrington, Jr., Worth Publishing.

Gibbons’ book is more theoretical with a formal presentation of game theory. It is a good preparation for students who plan to go to grad school in economics. Harrington’s text is at a more introductory level (despite the title) with lots of examples. These two complement each other. Both books are on reserve in the Foster Library.

Assignments and Exams. The course will have five problem sets, and two closed-book exams. Each problem set covers a significant amount of material (especially the first one), and so leaving it until the night before it is due is not a good idea. Late problem sets are not accepted without prior permission and a valid reason (being busy does not count). Consulting with other students on problem sets is permitted, but every student must write up his or her own solutions. For all assignments and exams, the UW Student Conduct Code (WAC 478-120) and Economic Department Policy on Academic Conduct ([http://econ.washington.edu/undergrad/academic_conduct/](http://econ.washington.edu/undergrad/academic_conduct/)) applies.

Assignments are due by 4pm in my mailbox in the economics main office (305 Savery Hall). The main office closes at 5pm, and don’t put your problem set under the door after it is closed.

Students with special needs (disabled students, students athletes and etc.) should send me your documents by April 11th. More information is available online ([http://depts.washington.edu/uwdrs/](http://depts.washington.edu/uwdrs/)). If you cannot make the exams, the same course will be offered again in the Fall quarter.
**Grade.** The final grade in this course will break down as follows: problem sets (20%), exam one (30%), and exam two (50%).

**Discussion.** General questions about the course and materials go to the discussion board in Canvas. You are encouraged to answer each other’s questions. Posting the full solutions to questions in the problem sets is NOT allowed. You could contact me through email for other questions. I will respond to my email within 48 hours.

**Economics Department’s Policy on Academic Conduct** Academic integrity is the cornerstone of the Department’s rules for student conduct and evaluation of student learning. Students accused of academic misconduct will be referred directly to the Office of Community Standards and Student Conduct for disciplinary action pursuant to the Student Conduct Code and, if found guilty, will be subject to sanctions. Sanctions range from a disciplinary warning, to academic probation, to immediate dismissal for the Department and the University, depending on the seriousness of the misconduct. Dismissal can be, and has been, applied even for first offenses. Moreover, a grade of zero can be assigned by the instructor for the course.

**Syllabus**

- March 31: *Introduction to Nash Equilibrium*
- April 2: *Best Responses, Nash Equilibrium Continued*
- April 7: *Dominance and Iterative Dominance*
- April 9: *Mixed Strategies, Existence of equilibrium*
- April 11: **Problem Set 1 Due - 4pm**
- April 14: *Applying Nash Equilibrium*
- April 16: *Extensive Form Games and Backward Induction*
- April 21: *Subgame Perfection, Extensive Form Games Continued*
- April 23: *Subgame Perfection with Incomplete Information and Introduction to Repeated Games*
• April 25 - **Problem Set 2 Due - 4pm**, 

• April 28: *Repeated Games and Folk Theorems*

• April 30: *Repeated Games, Learning, and Imperfect Observation*

• May 2 - **Problem Set 3 Due - 4pm**, 

• May 5: **Exam One**

• May 7: *Bayesian Equilibrium and Games of Incomplete Information*

• May 12: *Bayesian Equilibrium and Auctions*

• May 14: *Bayesian Equilibrium Continued, Revenue Equivalence and Email Game*

• May 16 - **Problem Set 4 Due - 4pm**, 

• May 19: *Incomplete Information in the Extensive Form*

• May 21: *Perfect Bayesian Equilibrium and Signaling*

• May 26: **No class - Memorial Day**

• May 28: *Signaling and Cheap Talk*

• May 30 - **Problem Set 5 Due - 4pm**, 

• June 2: **Q and A**

• June 4: **Exam Two**