

**ECON 485A: Game Theory with Applications to Economics
Fall 2022**

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Textbooks. The text for the course is:

Game Theory for Applied Economists, Robert Gibbons, Princeton University Press.

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.

Course. Lectures will be offered mostly in person, except a few ones will be remote lectures via Zoom. Remote lectures will be recorded and made available for remote viewing, while in-person lectures may not be streamed online nor recorded. Office hours will be offered remote via Zoom. Assignments must be submitted remotely via Canvas. Exams will be given in person.

Assignments and Exams. The course will have four 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. 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/) applies.

Students with special needs (disabled students, students athletes and etc.) should send me your documents asap. More information is available online (<http://depts.washington.edu/uwdrs/>).

Grade. The final grade in this course will break down as follows: problem sets (20%), exam one (30%), and exam two (50%).

Late problem sets are not accepted without prior permission and a *valid reason* (being busy does not count). Late problem sets will be heavily penalized (at 20% for the first day and zero point if late for more than a day). You will not be allowed to make up any missed exams or any low-scoring exams.

Grading complaints are considered when there has been a grading error. If you think there has been one, please submit a written petition pointing out the error. All petitions must be received at the start of class following the return of the graded problem set/exams. Note that the entire problem set/exam will be re-graded, and the overall score can go up or down.

Contact. You can contact me via email to submit request for special arrangement or schedule an office hour. I will usually return your email within 2 business days. Because the course materials are hard to explain through email, I will NOT return any email asking complicated questions; instead, please email me to schedule an office hour.

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.

Religious Accommodations. Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at Religious Accommodations Policy (<https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/>). Accommodations must be requested within the first two weeks of this course using the Religious Accommodations Request form (<https://registrar.washington.edu/students/religious-accommodations-request/>).

Important dates

- Oct 19, 12:30pm: **Problem Set 1 Due**
- Nov 2, 12:30pm: **Problem Set 2 Due**
- Nov 7, 12:30-2:20pm: **Exam One**
- Nov 23, 12:30pm: **Problem Set 3 Due**
- Dec 2, 12:30pm: **Problem Set 4 Due**
- Dec 7, 12:30-2:20pm: **Exam Two**