**Course Goals:**

(1) Improve abstract reasoning, especially as it relates to the economic topics listed below.

(2) Develop tools used to predict outcomes in both *strategic* and *market* settings.

(3) Gain deeper intuition for economic concepts, especially *efficiency* and *equilibrium*.

(4) Practice problem solving, including both formal logic and numeric calculation.

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**Week 1**

Social choice: Pareto Efficiency  
No section

2 Social choice: Arrow and Utilitarianism

3 Uncertainty, Expected Utility, and Game Theory

4 Game Theory: Simultaneous and Sequential; Cournot and Stackelberg

5 Game Theory: Auctions

6 Externalities, Mechanism Design, and VCG

7 General Equilibrium: The Edgeworth Box

8 General Equilibrium: Welfare Theorems

9 Adverse Selection  
Midterm Thursday, Oct 24

10 Review Tuesday, no class Thursday  
Midterm Thursday, Nov 21

Reading  
Review sessions and office hours to be announced

**Finals**

**Final Exam Tue, Dec 10, 12:00 - 2:00 pm**

If you miss this exam for any reason then you will need to take the final exam during finals week in a subsequent quarter.
Grades
Grades will either be based on a percentage (>93.3% is A, >90% is A-, etc) or a curve typical of economics courses (in this course, median set to a B), whichever is higher for you. Passing grades (C- or better) will also depend on other factors, including whether you submit all of the problem sets and take all of the exams.

<table>
<thead>
<tr>
<th>Exams (90%)</th>
<th>Problem Sets (10%)</th>
<th>Participation</th>
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<td>Your exam total will be based on “highest three” exams, where the final counts double: If you do well on your final, it will count for 60% while your best midterm will count for 30%; If you do poorly on the final, then each of the three exams will count for 30%. This means that you can simply not show up for a midterm, though this is a risky strategy that we do not advise. However, if something comes up (such as illness, funeral, or job interview) it will be up to you to decide whether missing a midterm is worth it. (details)</td>
<td>There will be weekly problem sets that you will do on paper and submit remotely each Monday at 12:00 noon. At any time during the quarter you can simply not submit your problem set: your midterm exam average will be imputed in its place. If you think you have a mostly correct problem set then you should hand it in, especially if you think you might miss (or do poorly on) a midterm. However, if you expect to ace both midterms then it will make no difference whether you submit a perfect problem set or no problem set at all. (details)</td>
<td>Participation will be used for students who fall on a cutoff between two grades. You do not need to prove insight or passion; instead, we want to acknowledge students that remain engaged. We will bump up your grade if the TA’s and professor know who you are (or recognize your photo), recall you showing up, and generally feel that you have been a nice classmate. We may bump your grade down if we did not recognize your photo, or if we recall chronic tardiness or other behavior that does not contribute to an environment of learning.</td>
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Resources

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<th>Section (Wednesdays)</th>
<th>Office Hours</th>
<th>Textbook and Notes</th>
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<td>Section is not required but strongly encouraged. It is designed to help you complete the upcoming problem set; or to prepare you for the upcoming exam.</td>
<td>All office hours (Prof and TA) will be posted on the Canvas homepage. I am also happy to meet by appointment if you have general concerns about your standing or progress in the class.</td>
<td>No required text; notes will be provided. If you have a copy of Microeconomics (any edition) by Besanko and Braeutigam, keep it, but do not go out and buy it.</td>
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Screens
I strongly encourage you to take notes by hand. If you want to take notes on your computer: users must sit in a designated part of the first row. Also, part of the room will be designated for “responsible phone use” while another part will be designated “zero tolerance.” All this is subject to change. More generally, please help me and your classmates figure out how to stay focused while in class.

Regrades
If you have a regrade request, please write out your request via a link online. Generally the original ruling stands: Requests centered on difficult (and unfortunately somewhat subjective) partial-credit decisions will rarely work. We work hard to be as fair as possible; your regrade requests needs to point out a mistake or oversight, not just an honest disagreement about partial credit. Please try to submit requests within one week of receiving a score.

Links: Accessible NU; Peer-Guided Study Groups; Academic Integrity