Overview of the Class
This class builds on some of the concepts you’ve learned in Micro I and II to study at a deeper level a variety of topics relevant to students of public policy. We will build foundations for understanding risk, uncertainty, problems of asymmetric information, public goods, and externalities. Throughout the course we will also discuss how policy makers grapple with the theoretical issues we’ve been discussing in class.

Text
The text is Nicholson and Snyder *Microeconomic Theory: Basic Principles and Extensions* 11th edition. However, your primary resource for studying/understanding the material should be my notes, which I will post online.

Logistics
Section I of this class meets live on Mondays via Zoom at 4:30-5:50PM CST. Section 2 of this class meets on Mondays via Zoom at 7:30-8:50PM CST. In addition to these live meetings meant to foster discussion and answer questions, there will be pre-recorded material posted every week. You need to watch the pre-recorded material before attending the live meeting, with the exception of the first class. There will be a TA section on Thursday at 8am and Thursday at 10am. Please stick with the section you were enrolled in. I will hold office hours on Tuesdays from 2-3PM via zoom. TA’s OH are TBA. A Canvas website for the class has been set up. I will post additional lectures, readings and handouts there, make announcements, etc.

Formal Requirements
Formal requirements for this class are 5 problem sets, a midterm, a final exam, and class participation. The problem sets will be given out at least a week in advance and will be due at 9AM, to be turned in on Canvas. You can work together on problem sets (in groups of up to 4) but everyone has to turn in their own problem set. Please write the names of anyone you worked with on your problem set. The date for the midterm is Monday, 2/8 during the regularly scheduled zoom time. The Final will be for both sections 1 and 2 on TBDpm on TBD of Finals Week. Your final grade will be given by the following weights:

- 20% homeworks
- 35% midterm
- 40% final
- 5%: participation

Academic Integrity
Please read and understand the University of Chicago’s statement on Academic Honesty and Plagiarism:

*It is contrary to justice, academic integrity, and to the spirit of intellectual inquiry to submit another’s statements or ideas of work as one’s own. To do so is plagiarism or cheating, offenses punishable under the University’s disciplinary system. Because these offenses undercut the distinctive moral and intellectual character of the University, we take them very seriously.*
Proper acknowledgment of another’s ideas, whether by direct quotation or paraphrase, is expected. In particular, if any written or electronic source is consulted and material is used from that source, directly or indirectly, the source should be identified by author, title, and page number, or by website and date accessed. Any doubts about what constitutes “use” should be addressed to the instructor.

All University of Chicago students are expected to uphold the highest standards of academic integrity and honesty. Among other things, this means that students shall not represent another’s work as their own, use un-allowed materials during exams, or otherwise gain unfair academic advantage. All students suspected of academic dishonesty will be reported to the Harris Dean of Students for investigation and adjudication. The disciplinary process can result in sanctions up to and including suspension or expulsion from the University. In addition to disciplinary sanctions, I reserve the right to give any students who have committed academic dishonesty a failing grade in the course, regardless of their performance on components of the course. The Harris policy and procedures related to academic integrity can be found at https://harris.uchicago.edu/gateways/current-students/policies. The University of Chicago Policy on Academic Honesty & Plagiarism can be found at https://studentmanual.uchicago.edu/academic-policies/academic-honesty-plagiarism/
Tentative Outline

- Week of Monday 1/11
  - Firm’s decision
    * NS Chapter 10, Chapter 11.
    * Costs, profit, and monopolists
    * Dynamic vs. static views of efficiency
  - Partial equilibrium and taxation in a competitive market
    * Discuss deadweight loss of taxation, incidence of taxation, price floors, etc.
    * NS pp. 439-447, 501-522
  - Power and the Profit Incentive
    * Homework 1 due

- Week of Monday 1/18
  - Martin Luther King Day (no live class)—I am open to scheduling a make-up class on Saturday and will solicit preferences about that in Week 1.
  - Externalities, Coase theorem, Pigouvian taxes
    * Define externalities, discuss market failure, when can taxation restore efficiency? Property rights and externalities.
    * NS pp. 685-694

- Week of Monday 1/25
  - General Equilibrium
    * Define an Edgeworth box, discuss partial vs. general equilibrium (examples of when it matters—taxation), discuss welfare theorems.
    * NS pp. 457-489
  - Finish GE in theory and discuss in practice
    * Homework 2 due

- Week of Monday, 2/1
  - Public Goods
    * Define Lindahl equilibrium: how to define equilibrium when everyone is paying different prices but consuming the same good at the same time, but each might want different quantities of the good.
    * NS pp. 694-702
  - Public Goods and auctions
    * Discuss the problem of true preference elicitation, mechanisms to support true preference elicitation
    * NS pp. 708-709
    * Homework 3 due

- Week of Monday 2/8
  - Midterm
    - A review will be posted in video uploaded by Friday before the midterm, but there will be no live meeting.
• Week of Monday 2/15
  – Risk and uncertainty
    * formalize the concept of risk, define expected values, lotteries. Define axioms of expected
      utility theory and vN-M expected utility functions. Begin discussing risk aversion.
  – Risk and uncertainty (cont.)
    * Discuss various equivalent definitions of risk aversion, certainty equivalents, risk premia,
      CARA, DRRA, etc.
    * What is the alternative to insurance and why does insurance/income smoothing increase
      welfare?
    * NS pp. 209-222; notes closely follow MWG ch. 6 (pp. 167-194) which is posted on
      blackboard.
• Week of Monday 2/22
  – An introduction to insurance
    * Define insurance and show that a risk averse person chooses perfect insurance under “fair”
      prices. Formalize the notion of insurance: who can offer it, to whom, and at what price?
    * NS pp. 233-238
    * Homework 4 due
  – Adverse selection and moral hazard
    * Why are insurance markets in real life so incomplete (deductibles, caps in coverage, tons
      of rules, denial of coverage)? Discuss practical barriers which arise when one agent’s behav-
      ior/characteristics aren’t perfectly observable to another: adverse selection and moral hazard.
      Define first-best vs. second-best equilibrium.
    * NS pp. 641-653, 670-674
• Week of Monday 3/1
  – Adverse selection and moral hazard (cont.)
    * NS pp. 641-653, 670-674
  – Self insurance through savings
    * Homework 5 due
• Week of Monday 3/8
  – Discrimination
    * We will discuss taste-based discrimination and how discrimination can survive in competitive
      markets. We will discuss empirical evidence to support various models of discrimination.
    * What do economists have to say about discrimination? We will define two theories of dis-
      crimination: statistical discrimination (in which individuals are assigned the average at-
      tributes of their group when being evaluated) and taste-based discrimination (in which em-
      ployers/customers/coworkers dislike interactions with members of minority groups). How
      does statistical discrimination affect wages and employment of minority workers? How might
      statistical discrimination affect firm tenure, lifecycle wages, and promotion?
    * ban the box and the unintended consequences of policy intervention