ECON 6202: Advanced Microeconomic Theory
Syllabus for Spring 2014
6:30 p.m. — 9:15 p.m. W
Friday 381

Instructor: Dmitry Shapiro
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Office hours: 3:00-6:00 W, or by appointment.

Course Description and Prerequisites: ECON 6202. The only prerequisite for this course is admission to graduate program. In this course I am going to cover topics of consumer and producer theory, partial and general equilibrium analysis and game theory.

Course Objectives: The objective of this course is to provide rigorous treatment of a modern microeconomic theory. The course is very mathematically intense, all main results are given with formal proofs.

Reading: the course will closely follow my notes that are available at
http://belkcollegeofbusiness.uncc.edu/dashapir/lectures.pdf;


• New (third) edition is published by Prentice Hall, April 2011. ISBN: 0273731912. The third edition contains new topics such as Game Theory, Bayesian Games and Mechanism Design.

Course Requirements and Grading: The grades will be determined as follows:

<table>
<thead>
<tr>
<th>Written Midterm</th>
<th>30%</th>
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<tr>
<td>Oral Midterm</td>
<td>30%</td>
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<tr>
<td>Final Exam</td>
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Test dates: The final exam is on May 7 from 8:00pm to 10:30pm. Yes, I know it’s insane. The written midterm will be on either February 19th or February 26th during the class. The oral midterm will be in April. I will provide more details during the first class. If you missed the first class, contact me.
A Tentative Course Outline
N - notes, JR - Jehle and Reny, 2nd edition

1. Introduction.

   Preferences and Utility (N 1; JR 1.2); The Consumers Problem (N 2.1; JR 1.3); Indirect Utility and Expenditure Functions (N 2.2; JR 1.4); Properties of Consumer Demand (N 2.3; JR 1.5); Revealed Preference (N 3; JR 2.3).

   Objective Probability and Expected Utility (N 4.1; JR 2.4); Subjective Probability (N 4.2; JR 2.4); Risk Aversion (N 4.3-4.4; JR 2.4).

   Production Functions (N 5.1; JR 3.2); Cost Functions (N 5.2; JR 3.3); Profit Maximization (N 5.3; JR 3.5).

5. Partial Equilibrium.
   Perfect Competition (N 6; JR 4.1); Equilibrium and Welfare (N 6; JR 4.3).

   The Edgeworth Box Exchange Economy (N 7; JR 5.1); Exchange Economies (N 7.1; JR 5.2); The Efficiency of Competitive Equilibria (N 8; JR 5.2.2); General Equilibrium with Production (N 9; JR 5.3).

   Externalities; Public Goods; Pigouvian Taxes; Coase Theorem (N 10).

8. Monopoly.
   Monopoly (N 11); First-, Second- and Third-Degree Price Discrimination (N 12).

9. Information Economics.
   Adverse Selection (N 14; JR 8.1).

10. Game Theory.

11. Review