Economics 7010-001
Microeconomic Theory 1
Fall 2007

Professor Jennifer Lamping
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Lectures: TR 9:30am - 10:45am, Economics 205
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Course Description

This course is the first of three semester courses that develop the basic tools and results of making and optimiza

Textbooks

The required textbooks are

- *Microeconomic Theory* by Andreu Mas-Colell, Michael D. Whinston, and Jerry R. Green

- *A First Course in Optimization Theory* by Rangarajan K. Sundaram.

The following two texts offer different presentations of the material in Mas-Colell, Whinston, and Green. If you find that you are having trouble with Mas-Colell, I urge you to obtain one or both of these texts to assist you in understanding Mas-Colell.

- *Advanced Microeconomic Theory* by Geoffrey A. Jehle and Philip J. Reny

- *A Course in Microeconomic Theory* by David M. Kreps

- *Microeconomic Analysis* by Hal R. Varian

If you find that you are having trouble with the mathematics used in this course, I recommend obtaining one or more of the following texts as references:

Tentative Course Schedule

Date	Topic	Required Readings	Assignments
Aug 28	Mathematical Preliminaries	HLMRS 2.1; R 1.1, 1.2, & 2.1, S 1.1 - 1.4	
Aug 30	Preference Relations	MWG 1.A & 1.B	
Sep 04	Choice Rules and WARP	MWG 1.C & 1.D	
Sep 06	Homogeneous Functions and Convexity	MWG M.B & M.G; HLMRS 11.5	PSet 1 Due
Sep 11	The Consumer's Problem	MWG 2.A - 2.E	
Sep 13	Properties of Matrices	MWG M.A & M.D; S 1.3 & 1.5	PSet 2 Due
Sep 18	Implications of WARP for Demand	MWG 2.F	
Sep 20	Convexity, Quasi-Convexity, and Continuity	MWG M.C & M.F; S 1.2.7 - 1.2.9, 1.4.1 - 1.4.2, 7.1 - 7.2, & 8.1 - 8.3	PSet 3 Due
Sep 25	Convexity, Quasi-Convexity, and Continuity (Cont'd)	MWG M.C & M.F; S 1.2.7 - 1.2.9, 1.4.1 - 1.4.2, 7.1 - 7.2, & 8.1 - 8.3	
Sep 27	Preferences and Utility	MWG 3.A - 3.C	PSet 4 Due
Oct 02	Preferences and Utility (Cont'd)	MWG 3.A - 3.C	
Oct 04	The Weierstrass Theorem and Unconstrained Maximization	MWG M.J; S 2 - 4	PSet 5 Due
Oct 09	Constrained Maximization: The Theorem of Lagrange	MWG M.K; S 5	
Oct 11	Constrained Maximization: The Theorem of Kuhn and Tucker	MWG M.K; S 6	PSet 6 Due
Oct 16	Convexity and Quasi-Convexity in Optimization Theory	MWG M.K; S 7. 3 - 7.7 & 8.4 - 8.8	
Oct 18	The Envelope Theorem and Correspondences	MWG M.H & M.L; S 9.1	PSet 7 Due
Oct 23	Correspondences and the Theorem of the Maximum	MWG M.H & M.L; S 9.1 - 9.2	
Oct 25	The Utility Maximization Problem	MWG 3.D	PSet 8 Due
Oct 30	**Midterm Exam**		

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Students with Disabilities

If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services **by September 13th** so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. University policies regarding disabilities are available at www.colorado.edu/disabilityservices. Disability Services can be contacted by telephone at (303) 492 8671 or in person at Willard 322.

Religious Observances

Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments, or required attendance. If you have a conflict due to a religious obligation, please see me **at least one full week in advance** so that alternate arrangements can be made. Policies regarding religious practice are available at www.colorado.edu/policies/fac_relig.html.

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Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Faculty have the professional responsibility to treat all students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which they and their students express opinions. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. Polices regarding classroom behavior are available at http://www.colorado.edu/policies/classbehavior.html and at http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code.

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