

UNIVERSITY OF COLORADO
Department of Economics

Economics 7010-001
Microeconomic Theory 1
Fall 2008

Professor Jennifer Lamping
Office: Economics 103

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
- *Microeconomic Theory: Basic Principles and Extensions* by Walter Nicholson and Christopher Snyder

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:

- *Mathematics for Economics* by Michael Hoy, John Livernois, Chris McKenna, Ray Rees, and Thanasis Stengos
- *Further Mathematics for Economic Analysis* by Knut Sydsaeter, Peter Hammond, Atle Seierstad, and Arne Strom
- *Mathematics for Economists* by Carl P. Simon and Lawrence E. Blume
- *Fundamental Methods of Mathematical Economics* by Alpha C. Chiang and Kevin Wainwright

Grading

The various components of the course will be weighted as follows to determine your final grade:

Assignments	10%
Midterm Exam	35%
Final Exam	55%

The midterm and final exams will each be graded on a 100-point scale with points allotted on the basis of the accuracy of your answers. In.125 TD0 Tc()Tj/TT4805 0 TD4.8(anasMiss000TJThe)-4 on a sc&

Tentative Course Schedule

Date	Topic	Required Readings	Assignments
Aug 26	Mathematical Preliminaries	HLMRS 2.1; R 1.1, 1.2, & 2.1, S 1.1 - 1.4	
Aug 28	Preference Relations	MWG 1.A & 1.B	
Sep 02	Choice Rules and WARP	MWG 1.C & 1.D	PSet 1 Due
Sep 04	Homogeneous Functions and Convexity	MWG M.B & M.G; HLMRS 11.5	
Sep 09	The Consumer's Problem	MWG 2.A - 2.E	PSet 2 Due
Sep 11	Properties of Matrices	MWG M.A & M.D; S 1.3 & 1.5	
Sep 16	Implications of WARP for Demand	MWG 2.F	PSet 3 Due
Sep 18	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	
Sep 23	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	PSet 4 Due
Sep 25	Preferences and Utility	MWG 3.A - 3.C	
Sep 30	Preferences and Utility (Cont'd)	MWG 3.A - 3.C	PSet 5 Due
Oct 02	The Weierstrass Theorem and Unconstrained Maximization	MWG M.J; S 2 - 4	
Oct 07	Constrained Maximization: The Theorem of Lagr	Tc0{Oc - ge13.42 1.1125 TD0.001 TD0.001 Tc-0.001 Twu85415i786u4 Tc-	

Oct 30	The Expenditure Minimization Problem	MWG 3.E	
Nov 04	Relationships between Demand, Indirect Utility, and Expenditure Functions	MWG 3.G	
Nov 06	Welfare Considerations	MWG 3.I	
Nov 11	SARP and Aggregate Demand	MWG 3.J & 4.A - 4.B	PSet 9 Due
Nov 13	Aggregate Demand, WARP, and the Representative Consumer	MWG 4.C - 4.D	
Nov 18	Production Sets	MWG 5.A - 5.B	PSet 10 Due
Nov 20	Profit Maximization	MWG 5.C	
Nov 25	Fall Break		
Nov 27	Thanksgiving		
Dec 02	Cost Minimization	MWG 5.C	PSet 11 Due
Dec 04	The Single Output Case	MWG 5.D	
Dec 09	Aggregation and Efficient Production	MWG 5.E - 5.G	PSet 12 Due
Dec 11	Class Cancelled		
Dec 15	Final Exam (Cumulative)	1:30pm - 4:00pm	

University Policies

Academic Misconduct

All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu, (303) 725 2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at www.colorado.edu/policies/honor.html and at www.colorado.edu/academics/honorcode.