

**UNIVERSITY OF COLORADO**  
**Department of Economics**

**Economics 7010-001**  
**Microeconomic Theory 1**  
**Fall 2007**

Professor Jennifer Lamping  
Office: Economics 103  
Email: [jennifer.lamping@colorado.edu](mailto:jennifer.lamping@colorado.edu)  
Lectures: TR 9:30am - 10:45am, Economics 205  
Office Hours: T 2:30pm - 4:00pm, Economics 103

Teaching Assistant: Nune Hovhannisyian

~~10:00am~~ <http://www.culearn.com> ~~10:00am~~ [nune.hovhannisyian@colorado.edu](mailto:nune.hovhannisyian@colorado.edu)

Course Website: CULearn

**Course Description**

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

## **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

<b>Date</b>	<b>Topic</b>	<b>Required Readings</b>	<b>Assignments</b>
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	<b>Midterm Exam</b>		



## **University Policies**

### **Students with Disabilities**

If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services **by September 13<sup>th</sup>** 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](http://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](http://www.colorado.edu/policies/fac_relig.html).

### **Classroom Behavior**

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. Policies 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](http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code).

### **Discrimination and Harassment**

The University of Colorado Policy on Sexual Harassment and the University of Colorado Policy on Amorous Relationships applies to all students, staff, and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at (303) 492 2127 or the Office of Judicial Affairs at (303) 492 5550. Information about the ODH and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>.

## **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](mailto: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](http://www.colorado.edu/policies/honor.html) and at [www.colorado.edu/academics/honorcode](http://www.colorado.edu/academics/honorcode).