

**UNIVERSITY OF COLORADO**  
**Department of Economics**  
**Economics 3070**  
**Welcome To Intermediate Microeconomic Theory**  
**Fall 2016**

**Professor:** Tania Barham  
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**Lecture:** Mon/Wed/Fri 12:00pm – 12:50pm, Hale 270  
**Recitation:** Starts 2<sup>nd</sup> week of classes  
**Office Hours:** Mon 1:00pm – 2:30pm in ECON 114  
**Course Website:** <http://www.colorado.edu/ibs/hs/barham/courses/econ3070/>  
**TA:** Nan Xu Mon. 9:50am-11:50am and 5pm-6pm in Econ 304  
Se Mi Park Wed. 1:00pm-3pm, Fri. 11:00am-11:50am in Econ 304

### **Course Description**

This course introduces the theoretical framework for analyzing the economic behavior of individual decision-makers, such as consumers, workers, firms, and managers. The course is divided into six sections. We begin with a basic review of supply and demand in Section 1. We then proceed to Section 2, which covers consumer behavior and market demand. In this section, we build a model of consumer choice and use this model to derive individual demand and market demand. In Section 3, we turn our attention to the other side of the market and analyze the behavior of firms and market supply. We build a model to show how each firm decides what technology it should use to make its product and what quantity of this product to bring to market. This model is then used to derive the firm's supply curve and the market supply curve. Section 4 brings the two sides of the market together to show how price and output are determined by the market. In Section 5 we will examine a variety of market structures are examined including perfect competition and monopoly. If time permits, we will close the semester by examining some issues such as behavioral economics or public policy.

### **Prerequisites**

Available to students who have completed ECON 100 Introduction to Economics or ECON 2010 Principles of Microeconomics, and either ECON 1078 Math Tools for Economists I and ECON 1088 Math Tools for Economists II, or MATH 1300.

### **Textbook**

The required textbook is *Microeconomics: An Integrated Approach*, 5<sup>th</sup> edition, by David Besanko and Ronald R. Braeutigam, 2013, John Wiley & Sons, New York, ISBN 9781118572276. There is a study guide available to accompany the textbook. You may wish to purchase the study guide if you would like extra practice solving problems, but doing so is not required. You can also purchase the 4th edition of the text as they are very similar.

### **Clickers**

Students are required to have a clicker for this class and extra batteries for each class. Clicker information will be used to help determine your attendance grade. You are responsible for

purchasing and registering the your clicker by Aug. 29<sup>th</sup>. Information on how to register clickers is at <http://www.colorado.edu/oit/tutorial/cuclickers-iclicker-remote-registration>. Make sure you use your identity key log in name so your clicker number can be matched to the grade roster. If you have any problems with your clickers call IT at 5HELP. Remember that using someone else's clicker for them violates the honor code, so don't do it and don't ask someone to use your clicker if you are going to be absent from class.

## Course Requirements

**Attendance for the first three classes in mandatory or you may be dropped from the class in order to make space for students on the waitlist.** Your participation and attendance grades will be based on random attendance checks and clicker data throughout the semester and your participation during the class. I allow everyone to miss 3 classes with no penalty. Your grade is made of up the percent of classes you are marked present for which attendance is taken. **There is NO need to email me or the TA to let us know you will be absent or why.** If you miss class it is the students responsibility to catch-up on any missed material.

## Grading

There will be 10 homework assignments, two mid-term examinations and one final exam. The weighting for these assessments are:

Assignments	15%
Participation/Attendance	10%
Midterm Exam 1	20%
Midterm Exam 2	20%
Final Exam	35%

The schedule of when problem sets are due and exams given is below. **The problem sets must be handed in class the day they are due at the beginning of class. Late problem sets will receive a score of zero.** Homework solutions will be posted soon after the due date. Students can work on the problem sets in small groups (4 people or less). However, each person *must* submit their own write-ups of their problem sets *and* you must put the names of your group members on your assignment (make sure your name is distinct from the group members so I know who to give the grade to). Handing in identical homeworks is not permitted and will result in a zero for all people with identical homeworks. Zeros will also be given for people who copy homework answers for past students.

Each assignment will be graded on a scale from 0 to 3: 0 points for not handing it in, 1.75 point for poor performance, 2.5 points for average performance, and 3 points for outstanding performance.

## Missed Assignments & Exams

Late assignments receive a grade of 0. I will drop the lowest two homework scores. So, if you cannot hand in a homework for some reason, you don't need to worry as I drop the lowest two homework scores. You do not need to let me know you are not handing it in for whatever the reason. I recommend you do all homeworks as the exams are structured similarly to homework questions so homework is essential to your success in this class. I do not given extra credit assignments, your assignments are your regular homeworks. You may not miss an exam. No

makeup exams will be given. If there is a proven emergency or other unusual circumstance, your grades will be reweighed.

### **Electronics in Class**

Cell phone use is not permitted in class and cell phone must be turned off. Anyone violating this rule will be asked to leave the lecture hall. Computer are permitted in lecture for course-related purposed only, but I do not encourage their use. If you use a computer for course related purposes you must sit in the last two rows of the lecture hall so you do not disturb the rest of the class. Anyone using computers for non-course related purposes will be ask to leave the lecture hall.

## Tentative Course Schedule

Please note the timing of subjects listed below and homeworks may change. Each class goes at a slightly different pace and there can be snow days and other unforeseen events. I WILL NOT change the date of an exam unless there is an unforeseen event and the University is closed on the exam day.

WEEK	DATES	TOPIC	READ	ASSIGNMENTS DUE
1	Aug. 22, 24, 26	Analyzing Economic Problems Math Review	Ch 1 A.1-A.7	
2	Aug. 29, 31, 2	Supply and Demand Analysis (MW) Preferences and Utility (F)	Ch 2 Ch 3	PS 0 Math Review (M) PS 1 - Ch 1 (W – Aug 31)
3	Sept. 7, 9	Preferences and Utility (WF)	Ch 3	PS 2 - Ch 2 (W – Sept 7)
4	Sept. 12, 14, 16	Consumer Choice	Ch 4	PS 3 - Ch 3 (W – Sept 14)
5	Sept 19, 21, 23	The Theory of Demand	Ch 5	PS 4 – Ch 4 (W–Sept 21)
6	Sept 26, 28, 30	The Theory of Demand (MW) <b>MIDTERM 1– Sept 30 Ch 1-4</b>	Ch 5	
7	Oct 3, 5, 7	Input and Production Functions	Ch 6	
8	Oct 10, 12, 14	Exam Review Input and Production Functions	Ch 6	PS 5 – Ch 5 (W–Oct. 12)
9	Oct 17, 19, 21	Costs and Cost Minimization	Ch 7	PS 6 – Ch 6 (W– Oct. 19)
10	Oct 24, 26, 28	Cost Curves	Ch 8	PS 7 – Ch 7 ( <b>M–Oct. 24</b> )
11	Oct 31, Nov 2, 4	Cost Curves (M) <b>MIDTERM 2 – Nov 2 Ch 1-7</b> Perfectly Competitive Mkts (F)	Ch 8 Ch 9	
12	Nov 7, 9, 11	Perfectly Competitive Mkts	Ch 9	PS 8 – Ch 8 (W– Nov. 9)
13	Nov 14, 16, 18	Perfectly Competitive Mkts Exam Review <i>Nov. 18 TBD</i>	Ch 9	PS 9 – Ch 9 (W– Nov. 16)
14	Nov 21, 23, 25	<b>THANKSGIVING BREAK</b>		
15	Nov 28, 30 Dec 2	Efficiency of Competitive Market Monopoly Market Structure	Ch 16.4 Ch 11 Ch 13.1	PS 10 – Ch 16.4, 11 (F– Dec. 2)
16	Dec 5, 7, 9	Competitive Markets: Applications (if time allows) Behavioral Economics Review	Ch 10	
		<b>Tentative Final Exam (Cumulative): Please check this yourself. Tentatively is Tuesday Dec. 13<sup>th</sup> 1:30pm - 4pm</b>		

## University Policies

- If you qualify for accommodations because of a disability, please submit a letter to me from Disability Services by **September 16th** so that your needs may be addressed for the first exam. Disability Services determines accommodations based on documented disabilities. Contact Disability Services at 303-492-8671 or by e-mail at [dsinfo@colorado.edu](mailto:dsinfo@colorado.edu). University policies regarding disabilities are available at <http://www.colorado.edu/disabilityservices>.
- 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 by **September 16th** so that alternate arrangements can be made. Policies regarding religious practice are available at <http://www.colorado.edu/policies/observance-religious-holidays-and-absences-classes-andor-exams>.
- All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the [academic integrity policy](#) of the institution. Violations of the policy may include: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access, clicker fraud, resubmission, and aiding academic dishonesty. All incidents of academic misconduct will be reported to the Honor Code Council ([honor@colorado.edu](mailto:honor@colorado.edu); 303-735-2273). Students who are found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code Council as well as academic sanctions from the faculty member. Additional information regarding the academic integrity policy can be found at [honorcode.colorado.edu](http://honorcode.colorado.edu) and <http://www.colorado.edu/policies/academic-integrity-policy>
- The University of Colorado Boulder (CU Boulder) is committed to maintaining a positive learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct, discrimination, harassment or related retaliation against or by any employee or student. CU's Sexual Misconduct Policy prohibits sexual assault, sexual exploitation, sexual harassment, intimate partner abuse (dating or domestic violence), stalking or related retaliation. CU Boulder's Discrimination and Harassment Policy prohibits discrimination, harassment or related retaliation based on race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. Individuals who believe they have been subject to misconduct under either policy should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127. Information about the OIEC, the above referenced policies, and the campus resources available to assist individuals regarding sexual misconduct, discrimination, harassment or related retaliation can be found at the OIEC website - <http://www.colorado.edu/institutionalequity/>
- Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veteran's status, sexual orientation, gender, gender identity and gender

expression, age, disability, 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. For more information, see the policies on classroom behavior and [the student code here](#):

<http://www.colorado.edu/policies/student-classroom-and-course-related-behavior>

[http://www.colorado.edu/osc/sites/default/files/attached-files/studentconductcode\\_16-17-a.pdf](http://www.colorado.edu/osc/sites/default/files/attached-files/studentconductcode_16-17-a.pdf)

- The Office of Student Conduct and Conflict Resolution (formerly the Office of Judicial Affairs, for those keeping score) can be reached at 303-492- 5550. Its website is <http://www.colorado.edu/osc/>.
- The Office of Victim Assistance can be reached at 303-492-8855. Its website is <http://cuvictimassistance.com/>.