

## Economics 100B: Microeconomics, Part B

Spring 2017, Professor Itai Sher

This is the second of three courses in the core microeconomics sequence. It builds on the material presented in Economics 100A. The principal themes of the course will be the theory of production and firms, the markets for factors of production, and the competitive equilibrium reached between producers and consumers in “perfectly competitive” markets.

### Prerequisites

Microeconomic principles (Econ 1), Econ 100A, and a year of calculus (either Math 10C or 20C or 21C). Students must have good math skills, and be very comfortable with calculus.

### Lecture and Discussion Section Schedule

Lecture	B00	MW	6:30p-7:50p	GH 242
900075 Discussion	B01	Th	8:00p-8:50p	CENTR 109
900076 Discussion	B02	Th	5:00p-5:50p	SOLIS 104

### Examinations

There will be two midterm examinations and a final examination. The midterm exams will take place during the normal class time on Monday, April 24 and Wednesday May 17. The final exam will take place on Wednesday, June 14, 2017 at 7:00p-9:59p.

### Class Website (TritonEd)

Materials will be posted at <https://tritoned.ucsd.edu/> on the page for Economics 100B.

### Course Materials (Links to all material other than the textbook are posted on Ted)

- Class Notes. Class Notes, which are closely related to the lectures, are posted on TritonEd. The graphs and some written segments in the notes are blank, and can be filled during lecture when the material is covered or by watching the video handbook. Lectures will contain additional material not in the notes.
- Intermediate Microeconomics Video Handbook (IMVH). There are video lectures to accompany the Class Notes. A link to the lectures is posted on Ted. Students should use the video lectures as a supplement to the class lectures.
- Professor Mark Machina's Mathematics Handout. There are also lectures in the IMVH that cover some of the material on the handout (look under A Math Topics). This is the mathematical background for which students are responsible; it will not be covered in lecture. Another good math resource is Martin Osborne's online Math Tutorial: <http://www.economics.utoronto.ca/osborne/MathTutorial/index.html>. Chapters 1-6 of this book review the calculus tools taught in Math 10ABC or 20ABC that are most important for this course
- Textbook. The text selected by the Economics Department for Econ 100ABC is *Intermediate Microeconomics with Calculus: A Modern Approach* (Varian). Chapters 1, 9, 16-23, 26, and 31-33 are relevant for Econ 100B. Students should think of the textbook as supplementary material. Other calculus-based textbooks can be used in place of Varian, including Nicholson's *Microeconomic Theory* and Perloff's *Microeconomics: Theory and Applications with Calculus*. One free option is an online introductory textbook written by Preston McAfee, available at: <http://www.introecon.com/>. The level of this book is between Econ 1 and Econ 100.

### **Piazza**

We will be using Piazza for class discussion. The system is highly catered to getting you help fast and efficiently from classmates, the TAs, and myself. Piazza offers students the opportunity to answer questions posed by classmates. If you are one of the students in the top 25% of number of “good” answers (marked by me or the TAs), you will earn a bonus equivalent to 1% of the class grade, and if you are in the top 10%, you will earn a bonus equivalent to 2% of the class grade. There is a link to Piazza on Ted.

### **Problem Sets**

Problem sets will be assigned on Wednesdays, and answers will be posted the following Tuesday. Problem sets will not be graded and students do not need to submit them. However, students should think of the problem sets as if they are due in the discussion section the following week. In discussion section, the TAs will go over some of the problems. You will be much better prepared for the exams if you attempt the problem sets before seeing the answers. Working on the mathematical exercises is a critical part of the learning process, so students are strongly urged to take problem sets seriously.

### **Grading Weights**

Midterm 1 is worth 30% of your grade, Midterm 2 is worth 30% of your grade. The final exam is worth 40% of your grade. In addition, you can earn extra credit on Piazza (see above). The class will be graded on a curve.

### **Problem Solving and Economics Tutoring Center (PSET). Learn to solve problems on you own!**

The Economics Department is making a problem solving and tutoring center available to all students in intermediate microeconomics (100ABC) on M-TH evenings and on the weekend. (Specific hours for PSET will be posted on the Department web page <https://economics.ucsd.edu/undergraduate-program/courses/pset-lab.html>). The ability to apply the concepts from class to solve problems is the most important skill we want you master in our core classes. PSET is designed to help you learn to tackle problems successfully by having grad and undergrad TAs there to help you think through a problem—right when you get stuck. If you struggle to tackle your homework, we believe that PSET will be an efficient and effective way for you to learn how to think like an economist.

### **Teaching Assistants and Contact Information and Office Hours**

(ECON = Economics Building, SH = Sequoyah Hall)

The TA for this class are:

Veena Jeevanandam Blume (Office: SH 227)      Office Hours: TBA  
Alexander Weiss (Office: Econ 122)      Office Hours: TBA

[vjeevana@ucsd.edu](mailto:vjeevana@ucsd.edu)  
[amweiss@ucsd.edu](mailto:amweiss@ucsd.edu)

**Note:** *TA office hours will be held in Econ 200 instead of the TA's office.* This applies to all TAs from all sections. There is one **exception**: the week before the exam, TA office hours will be held in the TA's office.

If you cannot make these office hours, you can attend the office hours for the other section of Econ 100B:

Sieuwerd Gaastra (Office: Econ 125)      Office Hours: TBA  
Yuehui (Amber) Wang (Office: SH 224)      Office Hours: TBA  
Mengyao Chen (Undergraduate TA)      Office Hours: TBA

### **Sher's Office Hours and Location**

Mondays: 9:00-11:45 am in Econ 113.

### **How to Succeed in the Course**

Doing well in this course requires regular attendance at lectures and discussion sections, watching the on-line lectures, and solving practice problems. Working through the homework exercises is a particularly important part of the learning process. It is important to attempt to solve problems yourself before looking at solution keys. In general, you should take an *active* approach to the material. This involves testing yourself to make sure that you understand the material, translating what you read and learn in lectures into your own words, identifying what you don't understand and working on it until you do.

### **Schedule of Topics and Lectures**

This is a rough schedule of the timing of topics; the material may be covered at a slightly faster or slower pace. The last column gives the corresponding Video Lectures and Sections in the Class Notes. (The Notes and Video Lectures are numbered in the same way; notes cover parts D and E)

*Key to the video lecture parts:* A Math Topics, B Basics, C Theory of the Consumer, D Theory of the Firm (D1 Production, D2 Cost Functions, D3 Optimal Supply in Markets), E Equilibrium in Competitive Markets (E1 Competitive Equilibrium in a Single Market, E2 General Welfare Analysis), F Beyond the Neoclassical Model.

<b>Dates</b>	<b>Topics</b>	<b>Video Lectures/Class Notes</b>
April 3	Overview	Parts A and C as needed
April 5-April 12	The Firm and Production	D1a-m (and A3-4 as needed)
April 17-19	Theory of Costs (short run, long run)	D2a-l, also A5 as needed
April 24	Midterm Exam 1	
April 26-May 8	Optimal Supply in Competitive Markets	D3a-k, also A5 as needed
May 10-May 15	Competitive Equilibrium	E1a-j
May 17	Midterm Exam 2	
May 22	Competitive Equilibrium (cont'd)	E1a-j
May 24-June 7	Welfare Analysis	E2a-m

### **Honors Program**

The Department of Economics offers graduation with honors in all three departmental majors.

Honors classes offer the opportunity to work closely with our preeminent faculty members on advanced topics. Honors classes not only provide students with advanced training, but they also allow students to develop meaningful relationships with the faculty (which is very helpful when looking for letters of recommendation).

For more information, see <http://economics.ucsd.edu/undergraduate-program/major-minor-requirements/honors-program.html>

### Administrative Notes

1. If you have a documented disability, please bring your documentation to the professor or lead TA so that suitable accommodations can be made. If you believe that you have a disability and desire accommodation, please register with the Office for Students with Disabilities as soon as possible. For information on the steps for academic accommodation, please see <http://www-senate.ucsd.edu/manual/appendices/app3.htm>.

2. Any student found guilty of academic dishonesty in this course will earn a failing grade for the course. In addition to this academic sanction, the Council of Deans of Student Affairs will also impose a disciplinary penalty. For UCSD policy, please see <http://www-senate.ucsd.edu/manual/appendices/app2.htm>.

3. You will only need a writing instrument (pen or pencil) for examinations. No books, notes, or electronic devices (including calculators, headphones, cell phones) are allowed, and students may not consult with each other during the examinations.

4. If you arrive late to an exam, you will be allowed to take the exam in the time that remains as long as no one has submitted his/her exam and left the room. If you arrive after someone has submitted an exam, you will earn zero points on the test.

5. If you believe that an exam has not been properly graded, you must give a **written note** clearly explaining why your score is in error to your discussion section or TA's office hours **within seven days** from when exams were returned to the class. The professor and TAs will then discuss the question, review your entire exam, and increase or decrease your score as is necessary. You may not ask for another regrade or reinstate your original grade. Hence, by submitting a re-grade request you risk having your score decrease, so consider this decision carefully.

6. UCSD has automated wait-lists. If you have any questions regarding adding the class, please contact the undergraduate advisors in Sequoyah Hall 245. The economics department does not allow late additions (additions after the second week) to any class.