

ECONOMICS 100B: MICROECONOMICS

Spring 2021, Zoom ID: 883-658-9887
MWF 12:00-12:50

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Office Hours: T 10-noon

Discussion Sessions (no sessions first week):

A01	M 6:00pm-6:50pm	A03	W 6:00pm-6:50pm
A02	M 7:00pm-7:50pm	A04	W 7:00pm-7:50pm

TAs	Office Hours	Zoom ID
Wendy Zeng (w5zeng@ucsd.edu)	M 4pm-6pm	794-378-567
Evgenii Baranov (evbaranov@ucsd.edu)	T 4pm-6pm	632-246-1561
Frederick Papazyan (fpapazya@ucsd.edu)	F 3pm-5pm	935-4031-1618
Camila Navajas Ahumada (cnavajas@ucsd.edu)	T 6pm-8pm	920-9972-6803
Steven Brownstone (sbrownst@ucsd.edu)	W 4pm-5pm; 9pm-10pm	744-479-8478
Shucun Si (s1si@ucsd.edu)	Th 7pm-9pm	707-844-4077
Maximo Ivakhno Bykova (mivakhno@ucsd.edu)	Th 11am-1pm	617-149-9844

Study Group Sessions: Tuesdays 12:30pm-1:50 at <https://canvas.ucsd.edu/courses/24663>
Phil Choi (pchoi@ucsd.edu)

All questions regarding department or university policies, procedures, and processes (like class enrollments and waitlists, late adds, grading options for majors/minors, increasing seats/adding more sections) should be addressed to the Virtual Advising Center at vac.ucsd.edu

Course Structure: The course will contain live lectures. All of the live sessions will be recorded and made available on Canvas.

Course Objectives: Econ 100B analyzes the theory of the firm and markets when there is price taking behavior. Topics include the theory of production, commodity supply and input demand in competitive markets, and competitive market equilibrium.

Required Texts:

- (1) Varian, "Intermediate Microeconomics with Calculus" 5e, is an opt-in e-book. Available on the class web site and students MUST opt-in by April 10th.
- (2) Mark Machina's Econ 100ABC Math Handout.

Web Resources: You are encouraged to take advantage of the following supplemental material for the 100ABC sequence, available free over the Internet.

- (1) Martin Osborne's intermediate mathematics tutorial:
<http://www.economics.utoronto.ca/osborne/MathTutorial/index.html>

(2) Preston McAfee's Introductory textbook (this material is at a level between most microeconomics principles textbooks and Perloff's more advanced treatment.) <http://www.introecon.com/>

Weekly Homework: Each week, I will post practice problems on Canvas. They will not be graded. The best way to prepare for the exams is to form study groups and practice doing the problem sets together. I will post the answers after the problems are reviewed in TA sessions.

Exams: We will have four tests in this class (including the final exam). The first three tests will take place at 7pm (!!) on Fridays 04/16, 05/07, and 05/21. The last test will take place during the scheduled time of the final exam for this class. Each test will carry equal weight of 25% each. All exams are closed book, but you can use a calculator. While I will do what I can to keep to this structure of the assessments for this course, the evolving situation may make it necessary for me to make a change.

Bonus Quizzes: After each of the first three exams (but not after the final exam) is graded, I will post a bonus quiz on Canvas. It will not have a time limit and will be available for three days. If a student who scored below a C- on the exam successfully completes this quiz, the difference between C- and their score will be halved. For example, if a C- cutoff on an exam is 18pts and a student received 12pts, by successfully completing the quiz, their score will become 15pts. Everyone is encouraged to work on those problems, but the score will be increased only for the successful completion of the quiz by the students who scored below a C- on a test.

Academic Integrity: We will be using LockDown Browser and a webcam for Canvas exams. I reserve the right to give an oral test if I feel it is necessary to uphold academic integrity.

This course requires the use of LockDown Browser and a webcam for online exams. The webcam can be the type that's built into your computer or one that plugs in with a USB cable.

Watch this brief video to get a basic understanding of LockDown Browser and the webcam feature.

<https://www.respondus.com/products/lockdown-browser/student-movie.shtml>

Download Instructions

Download and install LockDown Browser from this link:

<https://download.respondus.com/lockdown/download.php?id=953813920>

Once Installed

- Start LockDown Browser
- Log into to Canvas
- Navigate to the quiz

Note: You won't be able to access a quiz that requires LockDown Browser with a standard web browser. If this is tried, an error message will indicate that the test requires the use of LockDown Browser. Simply start LockDown Browser and navigate back to the exam to continue.

Guidelines

When taking an online quiz, follow these guidelines:

- Ensure you're in a location where you won't be interrupted
- Turn off all other devices (e.g. tablets, phones, second computers) and place them outside of your reach
- Before starting the test, know how much time is available for it, and also that you've allotted sufficient time to complete it

- Clear your desk or workspace of all external materials not permitted - books, papers, other devices
- Remain at your computer for the duration of the test
- If the computer, Wi-Fi, or location is different than what was used previously with the "Webcam Check" and "System & Network Check" in LockDown Browser, run the checks again prior to the exam
- To produce a good webcam video, do the following:
 - Avoid wearing baseball caps or hats with brims
 - Ensure your computer or device is on a firm surface (a desk or table). Do NOT have the computer on your lap, a bed, or other surface where the device (or you) are likely to move
 - If using a built-in webcam, avoid readjusting the tilt of the screen after the webcam setup is complete
 - Take the exam in a well-lit room, but avoid backlighting (such as sitting with your back to a window)
- Remember that LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted

Getting Help

Several resources are available if you encounter problems with LockDown Browser:

- The Windows and Mac versions of LockDown Browser have a "Help Center" button located on the toolbar. Use the "System & Network Check" to troubleshoot issues. If an exam requires you to use a webcam, also run the "Webcam Check" from this area
- Respondus has a Knowledge Base available from support.respondus.com. Select the "Knowledge Base" link and then select "Respondus LockDown Browser" as the product. If your problem is with a webcam, select "Respondus Monitor" as your product
- If you're still unable to resolve a technical issue with LockDown Browser, go to support.respondus.com and select "Submit a Ticket". Provide detailed information about your problem and what steps you took to resolve it

Regrade Requests: You will have one week during which you can request a regrade of your exam. Your whole exam will be regraded, and your score can go up or down. You are allowed only one regrade request for the quarter. However, if your request is successful (your score goes up), you will get another regrade request.

Schedule:

Week	Topic	Textbook Chapter	Video
1, 2	Theory of Production	Ch. 19	D1
3, 4	Theory of Cost	Ch. 22	D2
5, 6	Profit Maximization and Supply Under Perfect Competition	Ch. 23	D3
7	Demand for Factors of Production;	Ch. 16	E1
8	Equilibrium, Dynamics & Comparative Statics of Perfectly Competitive Markets		

9. 10

General Equilibrium

Final, June 9th, 11:30am

Ch. 32

E2

FAMOUS OPTIMIZATION PROBLEMS IN ECONOMICS

Optimization Problem	Objective Function	Constraint	Control Variables	Parameters	Solution Functions	Optimal Value Function
Consumer's Problem	$U(x_1, \dots, x_n)$ utility function	$p_1 \cdot x_1 + \dots + p_n \cdot x_n = I$ budget constraint	x_1, \dots, x_n commodity levels	p_1, \dots, p_n, I prices and income	$x_i(p_1, \dots, p_n, I)$ regular demand functions	$V(p_1, \dots, p_n, I)$ indirect utility function
Expenditure Minimization Problem	$p_1 \cdot x_1 + \dots + p_n \cdot x_n$ expenditure level	$U(x_1, \dots, x_n) = u$ desired utility level	x_1, \dots, x_n commodity levels	p_1, \dots, p_n, u prices and utility level	$h_i(p_1, \dots, p_n, u)$ compensated demand functions	$e(p_1, \dots, p_n, u)$ expenditure function
Labor/Leisure Decision	$U(H, I)$ utility function	$I = I_0 + w \cdot (168 - H)$ budget constraint	H, I leisure time, disposable inc.	w, I_0 wage rate and nonwage income	$168 - H(w, I_0)$ labor supply function	$V(w, I_0)$ indirect utility function
Consumption/Savings Decision	$U(c_1, c_2)$ utility function	$c_2 = I_2 + (1+i) \cdot (I_1 - c_1)$ budget constraint	c_1, c_2 consumption levels	I_1, I_2, i income stream and interest rate	$c_1(I_1, I_2, i), c_2(I_1, I_2, i)$ consumption functions	$V(I_1, I_2, i)$ indirect utility function
Long Run Cost Minimization	$w \cdot L + r \cdot K$ total cost	$F(L, K) = Q$ desired output	L, K factor levels	Q, w, r desired output and factor prices	$L(Q, w, r), K(Q, w, r)$ output-constrained factor demand functions	$LTC(Q, w, r)$ long run total cost function
Long Run Profit Maximization (in terms of Q)	$P \cdot Q - LTC(Q, w, r)$ total profit	none	Q output level	P, w, r output price and factor prices	$Q(P, w, r)$ long run supply function	$\pi(P, w, r)$ long run profit function
Long Run Profit Maximization (in terms of L and K)	$P \cdot F(L, K) - w \cdot L - r \cdot K$ total profit	none	L, K factor levels	P, w, r output price and factor prices	$L(P, w, r), K(P, w, r)$ factor demand functions	$\pi(P, w, r)$ long run profit function