

## ECONOMICS 100B: Economic Analysis: Macroeconomics

Lecture: TuTh 9:30 - 11 a.m. 1 Pimentel (CN 19488)

<http://emlab.berkeley.edu/~olney/spring20/econ100b>

This syllabus is the contract between you and me. Please read it carefully. "I didn't read the syllabus" or "I didn't read my email" is not an acceptable excuse for missing an exam, overlooking a reading, skipping a problem set, and so on.  
Prof. Olney

In Economics 100B, we further develop the tools of macroeconomic analysis that were introduced in Economics 1. Topics include: measurement of aggregate output and income; long-run growth; a flexible-price model of the composition of output; the short-run (sticky-price) model of fluctuations in output; aggregate demand; the monetary policy reaction function; and economic policy. A key goal of the course is for you to integrate math tools (including calculus), graphing tools, and economic argument.

### **Professor's Office Hours**

Professor Martha Olney (she, her), 691 Evans Hall, (510) 642-6083, [Olney@berkeley.edu](mailto:Olney@berkeley.edu), twitter @MarthaOlney  
#econ100b

Drop in: Mondays, 4 - 5 p.m.; Tuesdays, 11:30 - 1 p.m. Other times by appointment.

### **Head GSI Contact Information**

Shreya Dutt (she, her), [shreya\\_dutt@berkeley.edu](mailto:shreya_dutt@berkeley.edu). Office hours posted on course website.  
The head GSI handles all issues related to DSP arrangements and absences.

**Prerequisites:** Economics 1 or 2 (Introduction to Micro & Macro); and Math 1A or 16A (1 semester of college calculus).

**Staying in the Course and Adding the Course** The course is full. Some people on the waiting list will not get in. To stay in the course, you must initially attend the section to which you are assigned by CalCentral as of January 21. If you do not attend your assigned discussion section by Tuesday, January 28 and do not contact your GSI or the Head GSI to explain your absence, you will be dropped from the class. The department relies completely on CalCentral for enrollment purposes. If you are already on the waiting list but want to change your section choice, you cannot do so without dropping the course, re-adding, and thus going to the end of the waitlist. For help, see Econ GSI Coordinator Preston Mui (548 Evans, [HeadGSI@econ.berkeley.edu](mailto:HeadGSI@econ.berkeley.edu)), or an Econ Undergrad Advisor (539 Evans, [ugrad@econ.berkeley.edu](mailto:ugrad@econ.berkeley.edu)).

### **Textbook and Other Reading Material (Available as pdf's on bCourses)**

REQUIRED:

- [1] DeLong, J. Bradford and Martha L. Olney. *Macroeconomics*. 2<sup>nd</sup> edition. McGraw-Hill, Inc., 2006. **You cannot use the first or "updated" edition. ISBN 0-07-287758-8. Available as a pdf on bCourses.** Available in hard copy at Copy Central on Telegraph
- [2] Additional readings which will be distributed by email & posted on bCourses
- [3] Regular reading of a first-rate news source

VERY STRONGLY RECOMMENDED:

- [1] Olney, Martha. *Study Guide to Accompany Macroeconomics by J. B. DeLong and M.L. Olney*. 2<sup>nd</sup> edition. McGraw-Hill. 2006. **Available as a pdf on bCourses.** Available in hard copy at Copy Central on Telegraph

### **Letter of Introduction**

For your second section meeting, please write a one-page letter of introduction of yourself to your GSI. Submit a hard copy at section. Include your preferred name\*, its pronunciation, your pronouns, and anything about yourself that you would like to share. Please embed a photo of yourself; doing so will help your GSI learn your name. The paper will not be graded nor returned. (\*Be sure to set your preferred name in CalCentral too: <http://registrar.berkeley.edu/preferred-name.html>.)

### ***Communications Between You and Us***

Prof. Olney and the GSIs use email to contact you. You are responsible for reading your email. Additional readings for the course will be distributed by email. Be sure your email address registered with the University's [CalNet directory](#) is correct. Emails sent to the entire class by Prof. Olney or the Head GSI are archived at the "pages" tab on bcourses.

Emails sent to Prof. Olney or any GSI must have "Econ 100B" plus a descriptor in the subject line. For example, Econ 100B Enrollment, Econ 100B announcement, etc. Emails must use appropriate grammar and spelling (no txtng) and must be signed with both first and last names. Emails that don't meet these minimum expectations are deleted without being read.

### ***Piazza***

We use Piazza in lieu of emails for most student questions & answers. Rather than emailing questions to Prof. Olney or any GSI, post your questions on Piazza. Everyone – the instructors and students – then has the opportunity to provide an answer. Answers can be edited, wiki fashion. The instructors can give a 'thumbs up' to good student answers. Others with the same question can see the conversation and chime in. At the end of the term, students whose questions or answers receive the largest number of "good" votes from instructors will receive a few extra credit points. If you didn't receive a Piazza welcome email, sign up at <http://piazza.com/berkeley/spring2020/econ100b>. If you are asked for a code in order to enable sign up, email the Head GSI Shreya Dutt, [shreya\\_dutt@berkeley.edu](mailto:shreya_dutt@berkeley.edu)

### ***Announcements Policy***

All announcements are sent by Prof. Olney or the Head GSI via email and then posted on bCourses "pages" tab. No announcements are made in lecture. If you would like to make a written announcement to all Econ 100B students, send it to Prof. Olney for inclusion in her weekly email. Be sure you include a student name and contact info in the announcement. Prof. Olney reserves the right to delete announcements that are not relevant to Econ 100B.

### ***Limits to Confidentiality***

As UC employees, all course instructors and tutors are "Responsible Employees" and are required to report incidents of sexual violence, sexual harassment, or other conduct prohibited by university policy to the Title IX officer. We cannot keep reports of sexual harassment or sexual violence confidential, but the Title IX officer will consider requests for confidentiality. There are confidential resources available to you, including the PATH to Care Center (<http://sa.berkeley.edu/dean/confidential-care-advocate>), which serves survivors of sexual violence and sexual harassment.

### ***Laptop and Cell Phone Policies***

Because of the negative externalities associated with activities other than note taking, no laptops are allowed in lecture unless pre-approved by the Head GSI or the Professor. iPads, Surface, and other tablets or tablet PCs (laid flat and being used for note-taking) are ok. Cell phones should be turned off and put away in your backpack or bag, not left out on your desk or lap. You may use the calculator function on your smart phone in lecture or lab section during group work but not during exams.

### ***Discussion Sections***

There are 17 discussion sections. Section day/time/location and e-mail addresses for GSIs are on the course website. There is no informal switching of discussion sections. You must attend the section assigned to you by CalCentral.

### ***Responsibilities — Mine and Yours***

My (Prof. Olney) responsibilities are to come to class prepared, respond to and encourage questions and other participation insofar as class size permits, oversee grading of problem sets and exams, be available during office hours and for scheduled appointments, and stimulate an enthusiasm for economics and for learning.

Your responsibilities are to attend and participate in lecture three hours per week; attend and participate in section two hours per week; complete the assigned readings in a timely manner (allowing time to re-read difficult chapters); participate in class and in section; complete all assignments on time; take two midterms and a final exam, and write the final comprehensive essay.

### Discussion Section

Discussion section is important. Lectures move quickly. Section with your GSI is a key part of learning the material. Your GSI will go over material from the text and lectures, and lead group exercises. There will be occasional quizzes in section. Dates are shown in course outline on pp. 6-7. News & research articles will be discussed. Your active participation in section will enhance your understanding of the course material, which will be helpful on problem sets and exams. 10 percent of your course grade (50 points) will be based on your participation in section. See your section syllabus for more information on how to earn those points.

### Determinants of Grades

Your grade will be based on your performances on a comprehensive essay (worth 60 points), comprehensive final (worth 140 points), two midterm exams (each worth 100 points), section attendance and participation (worth 50 points), and five problem sets (worth 50 points). The share of each assignment in the total point score and the due dates are below.

### Due Dates and Share of Total Points

Assignment	Due Date	Share of Total Points
Section Participation	Throughout term	10
Problem Set #1	Via gradescope, Sunday Feb 2, 11:59 pm	2
Problem Set #2	Via gradescope, Wednesday, Feb 12, 11:59 pm	2
<b>MIDTERM EXAMINATION #1</b>	<b>EVENING: 7-8:30 PM, Wednesday Feb. 19</b>	<b>20</b>
Problem Set #3	Via gradescope, Wednesday, March 4, 11:59 pm	2
Problem Set #4	Via gradescope, Wednesday, March 18, 11:59 pm	2
<b>MIDTERM EXAMINATION #2</b>	<b>EVENING: 7-8:30 PM, Wednesday, April 1</b>	<b>20</b>
Problem Set #5	Via gradescope, Wednesday, April 22, 11:59 pm	2
<b>COMPREHENSIVE ESSAY</b>	<b>MORNING: 8:00 AM Wednesday May 6, on bCourses</b>	<b>12</b>
<b>FINAL EXAMINATION</b>	<b>Monday May 11, 3-6 pm (group 3), place TBA</b>	<b>28</b>

### Problem Sets

There will be five problem sets distributed in lecture and posted on the course website. Problem sets will be submitted via gradescope. Be sure you have a pdf scanner app installed on your phone if you don't have other access to a scanner. You can earn a max of 10 points on each problem set but 12-13 points will be possible. PS submitted up to 24 hours late incur a 5 point penalty. No PS accepted more than 24 hours after the due date. Problem set solutions will be posted on the course website. Because you have 11-12 days to complete each problem set, there are no extensions. Plan accordingly.

You may study with other students, *but your answers must be in your own words*. You may not prepare "group answers" nor post your answer to Piazza. Essays must be your own work. If you copy someone else's answer or essay, or if you prepare or post group answers, that is cheating. If your problem set is the same as someone else's problem set, in whole or in part, you both receive a zero (0) regardless of who did the work and who copied.

### Midterm Exams

Midterm exams will be held on Wed., February 19 and Wed., April 1 (no foolin'), 7:10-8:30 p.m. (Evening midterms). Each midterm exam will be worth 100 points and will cover the material presented in lectures, section, and the assigned readings through and including the lecture and section before the exam. No electronic devices or calculators allowed during exams. One handwritten 3x5 card is allowed. Old exams are on the course website.

Student-athletes and musicians are expected to be familiar with the policy on academic conflicts: [http://academic-senate.berkeley.edu/sites/default/files/committees/cep/guidelines\\_acadschedconflicts\\_final\\_2014.pdf](http://academic-senate.berkeley.edu/sites/default/files/committees/cep/guidelines_acadschedconflicts_final_2014.pdf). Notification of scheduled or potential conflicts must be delivered to the Head GSI Shreya Dutt, [shreya\\_dutt@berkeley.edu](mailto:shreya_dutt@berkeley.edu) by **Friday of the second week of classes, January 31**.

### ***Final Comprehensive Essay and Final Exam***

The final comprehensive essay will be due at 8:00 a.m. in the morning on Wednesday, May 6 (RRR week), via bCourses. Essay submissions will be checked against all other submissions, papers previously submitted by you or other students at any college or university, and published material. Be sure you submit your own work. Be sure you cite your sources.

The final examination will be on Monday, May 11, 3:00 - 6:00 p.m. (This is a time unique to Econ 100B. We don't use the final exam slot associated with our lecture time.) The final examination will be comprehensive and will cover all material presented in lecture, section, and the assigned readings.

**If you have or anticipate a conflict with the final exam, you should DROP THIS COURSE NOW.** Conflicts include simultaneously scheduled exams, non-refundable tickets, weddings, and any other commitment that prevents you from taking the exam on May 11. Military commitments and observance of Ramadan are accommodated. Having 3 or 4 finals back-to-back is (crazy &) not an excuse to miss or reschedule the final. Regardless of your grade going into the final, if you do not take the final you will receive an "F" in the course.

### ***Make-up Exam Policy***

There are no make-up exams. Exams are held only at the times noted. If you experience an emergency that is clearly unforeseeable and unavoidable that prevents your attendance at the exam, you **must** contact the Head GSI Shreya Dutt, [shreya\\_dutt@berkeley.edu](mailto:shreya_dutt@berkeley.edu) **before the midterm begins**. Explain the situation and provide documentation. Professor Olney and the Head GSI will consider your case and determine whether or not to offer accommodations.

There is no make-up final. If you miss the final with an acceptable excuse covering an unforeseeable and unavoidable event and you were otherwise passing the course, you will take the final with the other Econ 100B students at the end of Summer or Fall 2020. The course will be taught by a different instructor with a different textbook. ***If you can't take the final as scheduled, don't take this course!***

### ***Grading of Exams***

Sample exams are on the course website. All exams are closed book with several short-answer, essay, and problem questions. There will be no true/false or multiple choice questions. No calculators, laptops, phones, or other electronic devices allowed during exams. Exam booklets are provided.

Your work will be graded by the GSIs. Answers are graded solely upon their content and not upon their intent. This means that we don't grade what you "mean to say" but what you actually write (even if you "knew the answer but just couldn't say it right"). Moreover, answers that are illegible, rambling, or poorly organized will not receive high marks. Practice writing.

There is no pre-set or common scale whereby a certain number of points corresponds to a certain letter grade. There is no fixed curve for this course dictating what share of students will receive what letter grade. It is theoretically possible for everyone to earn an A. It is also possible for everyone to earn a C. Past performance of students in Economics 100B indicates however that approximately 25-30 percent of the class will receive an A of some sort, about 35-45 percent will receive a B of some sort, and the remainder will receive C's or below.

The course can be taken Pass/Not Pass if you are otherwise free to do so. You can not take this course P/NP if you are fulfilling a requirement for the economics major. Students taking the course under the P/NP option must earn at least a C- in order to pass the course. P/NP students must pass the final and write an acceptable essay in order to pass the course.

### ***Accommodations***

If you require disability-related accommodations for exams or lecture, if you have emergency medical information that you wish to share, or if you need special arrangements in case the building must be evacuated, please email or speak with Head GSI Shreya Dutt, [shreya\\_dutt@berkeley.edu](mailto:shreya_dutt@berkeley.edu) by **February 1**. Do so by February 1 even if your DSP appointment is after February 1. At least 2 weeks before the exam, you must also obtain a Letter of Accommodation (LOA) from Disabled Students' Program (<http://dsp.berkeley.edu>, 260 César Chávez Center) which they send electronically to the Head GSI. DSP's Proctoring Service requires we notify them of participants at least two weeks in advance of an exam. Request for exam accommodation must be received and acknowledged by Head GSI Shreya Dutt at least two weeks before an exam, which is DSP's own internal deadline for scheduling the proctoring of exams. Accommodations are not offered retroactively.

### ***Honor Code***

We at UC Berkeley have adopted this Honor Code: "As a member of the UC Berkeley community, I act with honesty, integrity, and respect for others." Your Econ instructors join you in pledging to adhere to this code.

### ***Academic Honesty Policy***

In fairness to students who put in an honest effort, cheaters will be harshly treated. Any evidence of cheating will result in a score of zero (0) on that assignment. Cheating on a midterm, the comprehensive essay, or the final exam results in an "F" for the course. Cheating includes but is not limited to bringing written or electronic materials into an exam, using written or electronic materials during an exam, copying off another person's exam or assignment, allowing someone to copy off of your exam or assignment, having someone take an exam or assignment for you, changing an exam answer after an exam is graded, or plagiarizing written materials. Incidences of cheating are reported to Center for Student Conduct, which administers additional punishment. See also <http://sa.berkeley.edu/conduct/students/standards>.

Cheating also includes plagiarism, which is the presentation of someone else's ideas as your own. Plagiarism includes good old-fashioned copying (copying whole passages with or without credit), copying words and phrases without credit, using both main and supporting ideas without credit, and paraphrasing without credit. If you don't know when or how to properly cite sources for a paper, check this library document: <http://www.lib.berkeley.edu/how-to-find/cite-sources>. Economists use Chicago style.

### ***Fire Alarm Policy***

A truly annoying bad habit at UCB is the pulling of fire alarms by ill-prepared and selfish students who foolishly think their entire future rests on one midterm grade. This is a crime, punishable by a fine and time in jail. In addition, anyone caught pulling the alarm will fail the course and is subject to expulsion from the University. If the alarm is pulled during an exam, the class will move outside and finish the exam in the allotted time. In this event, follow the instructions of the GSIs.

### ***Tutoring***

Economics Department grad students offer free tutoring. <https://www.econ.berkeley.edu/undergrad/home/tutoring>. Twitter @CalEconTutoring. A list of tutors-for-hire (about \$50/hour) is also available at the Econ Dept Tutoring Center website. Also the Student Learning Center (SLC) offers Study Group and Drop-in Tutoring for Economics 100B. These services are free for registered Cal students. Additional information is available at <http://slc.berkeley.edu/econ>

### ***Course Capture***

Accessible via bCourses. Because the class is taught with chalk, not on a laptop, the course capture will be **audio only**.

### ***When Reaching Out is the Right Thing to Do***

Econ 100B can be a difficult and stressful course, as can life in general. If you're feeling overwhelmed, anxious, depressed, or simply not managing everything as well as you'd like, consider taking advantage of the resources and services available to you from Tang. Check <https://uhs.berkeley.edu/counseling/>. Counseling & Psychological Services (CAPS) can also be reached at 510-642-9494 or after-hours at the crisis line 855-817-5667. Social Services can be reached at 510-642-6074 or via the counseling website. CAPS offer a range of resources including individual and group counseling, workshops, referrals, and more.

### Course Outline and Reading Assignments

The reading assignments are from the textbook. Occasional news and research articles will also be distributed electronically & posted on bcourses; these articles are to be considered "assigned reading." Articles tweeted by Prof. Olney are not "assigned" (required) but are worth reading and considering. The material covered in this course is difficult. Students who regularly skip lecture or fail to do the readings are almost guaranteed to receive low marks in the class.

Date(s)	Topics	Textbook Reading	Assignments & Assessments
<b>Section 1. Preliminaries</b>			
Jan 21	Overview, Review of Macro	Sections 1.1 & 1.2 of Chap 1	
Jan 23	Math tools; Logic tools	Readings posted to bcourses	Math Assessment in 2 <sup>nd</sup> section Letter of intro due 2 <sup>nd</sup> sect.
Jan 28	Macro data; GDP accounting	Section 2.6 of Chap 2 Sections 3.1 & 3.2 of Chap 3	
<b>Section 2. Long-run issues: Determinants of Standard of Living and its Growth Rate</b>			
Jan 30, Feb 4	Economic Growth	Section 3.3 & 3.4 of Chap 3 Section 4.1 & 4.2 of Chap 4	PS 1 due via Gradescope Sunday Feb 2, 11:59 pm
Feb 6, 11	Balanced Growth Equilibrium	Section 4.3 & 4.4 of Chap 4 Section 5.1 & 5.2 of Chap 5	Quiz in section Tues/Wed Feb 11/12
Feb 13	Extensions of Growth Model	Sections 5.3 & 5.4 of Chap 5	PS 2 due via Gradescope Wed., Feb 12, 11:59 pm
Feb 18	Review for MT 1		
<b>Wed., Feb 19</b>	<b>MIDTERM 1, 7:10-8:30 pm</b>	<u>rooms (go with your GSI)</u> 155 Dwinelle: Eduardo, Simon, Sushil, and Umar 145 Dwinelle: Chitra & Luke's section 101 (MW 8-9) Latimer 120, Josh, Luke's section 104 (MW 11-12) GPB 100: Shreya, Manny TBD: DSP students	
Thurs., Feb 20	Class cancelled (MT last night)		
<b>Section 3. Timeless Issues: Determinants of Aggregate Demand</b>			
Feb 25, 27	Determinants of C, I, and NX	Sections 6.2-6.4 of Chap 6 Sections 2.2-2.4 of Chap 2	
<b>Section 4. Long-run issues: Determinants of Saving and Investment</b>			
Mar 3, 5	Flexible Price Model	Chapter 7 (all)	PS 3 due via Gradescope Wed., March 4, 11:59 pm
Mar 10	Extensions to Flexible-Price Model		Quiz in section Tues/Wed March 10/11

Date(s)	Topics	Textbook Reading	Assignments & Assessments
<b>Section 5. Short-run issues: Determinants of Unemployment &amp; Inflation</b>			
Mar 12	Sticky-Price Model, Income & Expenditure	Section 9.1 & 9.2 of Chap 9 Section 2.5 of Chap 2	
Mar 17	Multiplier	Section 9.3 of Chap 9	
Mar 17, 19	IS Curve	Sections 10.1-10.3 of Chap 10	PS4 due via Gradescope Wed., March 18, 11:59 pm
Mar 24, 26	Spring Break!		
Mar 31	Review for MT2		
<b>Wed., April 1</b>	<b>MIDTERM 2, 7:10-8:30 pm</b>	<u>rooms (go with your GSI)</u> 155 Dwinelle: Eduardo, Simon, Sushil, and Umar 145 Dwinelle: Chitra & Luke's section 101 (MW 8-9) Latimer 120, Josh, Luke's section 104 (MW 11-12) GPB 100: Shreya, Manny TBD: DSP students	
Thurs., April 2	Class cancelled (MT last night)		
Apr 7	Quantity Theory of Money, Finance in 2007-2009	TBD	
Apr 9	Okun's Law & Phillips Curve	Section 12.1 of Chap 12	
Apr 14, 16	Monetary Policy Reaction Function	Section 12.2 of Chap 12	
Apr 21	Natural Rate of Unemployment, Expectations	Section 12.3, 12.4, 12.5 of Chap 12	Quiz in section Tues/Wed April 21/22
Apr 23	Changes to MPRF		PS5 due via Gradescope Wed., April 22, 11:59 pm
Apr 28, 30	Extensions & Conclusion	Chapter 13, Epilogue	
May 5	RRR Review with Olney		Essay due via bcourses Wed., May 6, 8 Am (morning, am, early)
Monday May 11	<b>Final, 3:00-6:00 pm</b>		Room(s) TBD