ECONOMICS 381

Intermediate Macroeconomics 2023 Winter

Tuesday and Thursday, 12:30-13:45
HBLL 3712

Instructor:

Scott Bradford

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Office:

WVB 2130

Office Hours:

Set up an appointment using my Calendly page. The link is

https://calendly.com/scottbradford/meeting.

TA:

Gray Jackson

Email:

gradenpjackson@gmail.com

Phone:

801-608-4440

Office Hours:

M 16-17; Tu 9:30-11; W 12:30-13:30; Th 9:30-11. WVB 11??.

Prerequisites: Economics 110, Math 112. Economics 380: Strongly recommended.

DESCRIPTION

We have you take this course so that you can gain expertise in theoretical models used to describe the macro economy and apply them to key macro events and data. You will learn to model macro economies with individuals, businesses, and a government. Such modeling will help you to understand important economic phenomena such as economic growth, inflation, unemployment, recessions, and the impact of policy interventions. You will evaluate macroeconomic data and use theory to understand causes and consequences of empirical observations. You will also apply these concepts to real-world economic events, such as the Great Depression, the deep recession of 2007-2009, and the 2020-22 pandemic.

This course has the following learning goals:

- Understand the nature and construction of key macroeconomic data.
- Understand the connection between microeconomics and macroeconomics.
- Apply standard macroeconomic models to long-run and short-run growth.
- Use these models to analyze the macroeconomic effects of monetary and fiscal policy changes and of economic shocks.
- Use these models to interpret historical and current events.
- Understand the value and limitations of monetary and fiscal policy.

We will use readings, pre-class quizzes, in-class practice and discussion, problem sets, writing assignments, and tests to promote learning.

HOW WE WILL RUN THIS COURSE

Pre-class Preparation

For each class, I will give you pre-class materials to work through beforehand: assigned textbook readings; class outlines and slides, which take the place of me presenting a lecture; "Key Concepts" summary sheets; and quizzes. I do not expect you to learn the material on your own, but I do expect you to apply yourself to the readings before each class.

And now a plug for doing the readings on schedule. In general, those who do this perform better in the class. There is another benefit, though. We are a learning community. We meet together as a class and learn as a class. So, the closer we get to everyone coming to class having conscientiously done the readings, the more we all will learn. Thus, doing the reading has social as well as personal benefits. So, please strive to be model 381 citizens and do your best to read on schedule!

Class Sessions

During class time, we will discuss your questions and work through practice problems. I will be happy to discuss whatever topics seem to benefit the most students, including giving mini-lectures, but I will not mechanically rehash the pre-class materials during class time. To facilitate learning, I will from time to time break you up into discussion groups, in which you will work together to solve problems.

COURSE REQUIREMENTS

Pre-class Preparation

Readings

All readings are required and come from the textbook: **Mankiw, N. Gregory**. 2022. *Macroeconomics, 11th Edition*. New York: Worth Publishers. The schedule on page 7 shows what readings are due when.

Pre-class Quizzes

To motivate you to read ahead of time and to help boost your understanding, you will have a quiz before each class. These quizzes will be short: Five true-false questions that test comprehension of the readings. Each question is worth one point.

Pre-class quizzes will be due at **11:30 each class day**. These quizzes are **open book** but **closed person**. During the quiz, you can consult the readings and whatever notes you have; please, though, do not consult another human. Doing so constitutes cheating. Of course, you also should not cheat in other ways, such as getting access to the questions or answers before you take the quiz. These quizzes will be **timed**: 20 minutes each. The time limit means that you will need to work through the readings ahead of time. **Each quiz is worth five points**, and there are 23 quizzes. Your total quiz score, though, will be **capped at 110 points**. Thus, you will have 115 questions to get the maximum 110 points. You cannot make up missed quizzes.

In-class Writing

At the end of each class, I will ask you write about what we are learning by responding to two prompts, such as the following:

- Describe at least one insight you gained from today's class and explain why it matters to you or society.
- Write down at least one question that you still need answered.
- Provide at least one example of how today's material is manifest in the world.
- How did today's class confirm, enhance, or contradict what you thought you knew before?

Each time you provide reasonable answers to the two prompts before leaving class that day, you get **two points**. You will have 23 classes in which to do this. The total points for in-class writing will be capped at **40**, so you can miss doing this three times and still get full credit. You can submit the responses on paper or electronically.

In-class Extra Credit Quizzes

To provide further chances to learn and to gain points, I will give **eight in-class quizzes**. They will be closed book and have five questions, worth one point each, for a total of **5 points per quiz**. Points earned on these quizzes will be **restricted extra credit**: they can be used to make up lost pre-class quiz and problem set points.

Problem Sets

You will have **10 problem sets, worth 16 points each**. The course calendar on page 7 shows the due dates. I will post problem set solutions at the problem set due date and time, so late problem sets cannot receive full credit. You can, however, turn them in any time through the last day of class, April 19, Wednesday, and receive a grade of 7 on those, if they are more than three fourths correct. You may work with others on the problem sets, but please turn in your own personal answers. Free riding with problem sets will come back to haunt you during the exams.

Learning Dialogue Essays

In order to help you understand well key concepts of the course, you will have **three** writing assignments called Learning Dialogue Essays (LDEs). For each, you will need to answer specific questions. These assignments have two parts. You first engage in a Learning Dialogue with another person, in which you explain the answers to that person. As the name implies, this should be a dialogue. Your partner should ask you questions until he or she feels like he or she understands well. Do not skimp on these dialogues. Effective ones last 15 minutes or more. Ensuring that the other person understands the answers well will help you to understand them well. I assign dialogue essays because simply reading and taking notes can be deceptive. Learning gaps can go undetected. Actually explaining something, though, quickly exposes gaps and helps you to fill them. After you complete the Learning Dialogue, you will then write your answers to the questions in essay form, with a 300-word maximum.

LDEs will be due on Fridays about once a month, with the first due February 17 at 17:00. I will give further details for each on separate handouts.

Each LDE is worth 30 points: the Learning Dialogue counts for 10 points, while the essay counts for 20 points. For the first two essays, if your score on the essay part is 18 points or less, you can **rewrite** it for a chance to get half of the missing points back. You will need to submit a paragraph describing the essay's improvements along with the re-write. Please email the rewrite to Professor Bradford. You will then either get half of the points back or no change in the grade. These re-writes will be due one week after getting the initial essay back.

Late LDEs turned in within one business day (by the following Monday at 17:00) will receive a five-point penalty. LDEs turned in between one and two business days late (between the following Monday at 17:00 and the next day, Tuesday, at 17:00) get a 10-point penalty. LDEs turned in after that and by April 19, Wednesday, get a 15-point penalty. These late penalties are permanent: rewrites cannot be used to make up late penalty points.

Tests and Final Exam

Overview

We will have three tests and a final exam. All tests and the final will be cumulative and will have the same format as the problem sets: short answer questions and longer analytical problems. The tests and final will increase in length and point value as the semester goes on, as follows:

Test 1: 50 points.
Test 2: 100 points.
Test 3: 150 points.
Final Exam: 300 points.

The tests are closed book with no time limit. They will happen once a month in the Testing Center. See the Course Calendar below for the exact schedule for each test. Each test will run Thursday through Saturday, and we will not have class on that Thursday. Instead, Gray will run an optional review session.

The **final exam** will be in class at the assigned time and thus will have a three-hour time limit. It will also be closed book. You must pass the final to pass this course.

Second Chance Testing

We will drop all tests whose percentage is below your percentage on the final. We will add the weight of any dropped tests to the final. For instance, Test 1 counts for 50 points, or 5% of the final grade. If your percentage on the final exceeds your percentage on Test 1, then we will drop it, and the final will get 5% added weight. We will drop all tests with lower percentages than the final, so it is possible that we drop all three tests, which would mean that the final would count 60%.

This system means that, if you struggle early on but then recover and learn the material well in the end, you get full credit for that final knowledge and are not penalized for early struggles.

Note that this system also means that, in effect, the tests are optional (though the final is not!). You can just skip all three of them and put 60% weight on the final. I do not recommend this, though! Putting so much weight on the final is risky. That risk is compounded by the fact that skipping the tests will make it difficult to prepare well for the final. The actual process of taking the tests gives you valuable practice with the types of questions that will show up on the final and implants the concepts more firmly in your mind. Taking the tests will also enable you to identify gaps in your learning that need to be filled to do well on the final.

There are no make-up tests. If you miss a test, for whatever reason, we will just add the weight to the final.

<u>GRADING</u>

The following table summarizes the grade breakdown for the course.

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OUT-OF-CLASS ASSIGNMENTS	
23 Pre-class Quizzes	110
23 In-class Writing Assignments	40
8 Problem Sets	160
3 Learning Dialogue Essays	90
Subtotal	400
EXAMS: DEFAULT POINTS (Tests whose percentages are lower than the Final's will be dropped, and those tests' weight will be added to the Final's.)	
Test 1	50
Test 2	100
Test 3	150
Final Exam	300
Sub-total	600
GRAND TOTAL	1000

The final letter grade scale used will be **no stricter** than the following:

POINTS	GRADE
933 or more	Α
900-932	A-
867-899	B+
833-866	В
800-832	B-
767-799	C+
733-766	С
700-732	C-
667-699	D+
633-666	D
600-632	D-
599 or less	Estation

Do not obsess over your grade. If you love learning for its own sake and do your best, everything else will fall into place. We will only give an **incomplete (I)** if circumstances beyond your control make it impossible to complete the required work within the prescribed time. An "I" is never given when a student is failing or has failed the course. Valid reasons for an "I" do not include a demanding job, a break-up, or the depression caused by the Washington Wizards' sub-par performance.

COMMUNICATION

This class will have an optional Slack discussion board that Gray and I will monitor. See Learning Suite for the link. I encourage you to post questions of general interest to Slack: your fellow students, Gray, or I will provide answers. Gray and I also welcome in-person meetings, call, emails, and private Slack messages. Open communication improves the quality of your work and ours!

ACADEMIC HONESTY

Despite the stresses of college life, please do not resort to cheating. You know as well as I that the costs of dishonesty far exceed the benefits of possibly getting a higher score. Also, cheating threatens your eligibility to continue as a BYU student, until amends are made. I do not go easy on cheating, but the more quickly one confesses, the less severe the punishment. See https://honorcode.byu.edu/ for more information.

SEXUAL HARASSMENT AND GENDER DISCRIMINATION

BYU prohibits all forms of sexual harassment—including sexual assault, dating violence, domestic violence, and stalking on the basis of sex—by its personnel and students and in all its education programs or activities. University policy requires all faculty members to promptly report incidents of sexual harassment that come to their attention in any way and encourages reports by students who experience or become aware of sexual harassment. Incidents should be reported to the Title IX Coordinator at t9coordinator@byu.edu, (801) 422-8692, or 1085 WSC. Reports may also be submitted online at https://titleix.byu.edu/report or through the 24-hour hotline at 1-888-238-1062. BYU offers a number of resources and services for those affected by sexual harassment, including the university's confidential Sexual Assault Survivor Advocate. Additional information about sexual harassment, the university's Sexual Harassment Policy, reporting requirements, and resources can be found in the University Catalog, by visiting http://titleix.byu.edu, or by contacting the university's Title IX Coordinator.

DISABILITIES

Brigham Young University is committed to providing a working and learning atmosphere that reasonably accommodates qualified persons with disabilities. A disability is a physical or mental impairment that substantially limits one or more major life activities. Whether an impairment is substantially limiting depends on its nature and severity, its duration or expected duration, and its expected long-term impact. Examples include vision or hearing impairments, physical disabilities, chronic illnesses, emotional disorders (e.g., depression, anxiety), learning disorders, and attention disorders (e.g., ADHD). If you have a disability which impairs your ability to complete this course, please contact the University Accessibility Center (UAC), WSC 2170 or 801-422-2767, to request an accommodation. The UAC can also assess students for learning, attention, and emotional concerns. If you feel you have been unlawfully discriminated against on the basis of disability, please contact the Equal Opportunity Office at 801-422-5895, eo manager@byu.edu, or visit https://hrs.byu.edu/equal-opportunity for help.

COURSE SCHEDULE (subject to change)

Class			Textbook Readings	
No.	Date	Topic	Chapter: Page Numbers	
1	Jan 10, Tu	Introduction	1: All	
2	Jan 12, Th	Measurement and Data	2: 15-22, 23-27, 28-30, 32-34, 36-37	
3	Jan 17, Tu	National Income 1	3: 41-54	
4*	Jan 19, Th	National Income 2	3: 54-65	
	Jan 19, Th	Problem Set 1 Due at 17:00		
5	Jan 24, Tu	Consumption Models	20: 497-507, 509-512	
6	Jan 26, Th	Investment Models	20: 512-517, 521-523	
7*	Jan 31, Tu	Unemployment	7: 165-179, 185-186	
	Jan 31, Tu	Problem Set 2 Due at 17:00	·	
	Feb 2-4, Th-		eview during class time, Feb 2, Th.	
8	Feb 7, Tu	Monetary System	4: All	
9	Feb 9, Th	Inflation	5: 97-110, 113-114, 115, 119-121	
,	Feb 9, Th	Problem Set 3 Due at 17:00		
10*	Feb 14, Tu	International Macroeconomics	6: 125-139	
11	Feb 16, Th	Exchange Rates	6: 139-148, 151-153	
11	Feb 16, Th	Problem Set 4 Due at 17:00		
	Feb 17, F	LDE#1 due at 17:00.	full '에 경우 물란 경우 5명 5명 1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 21, Tu	No class. Presidents Day.		
12	Feb 23, Th	Growth: Capital Accumulation	8: 189-199	
13*	Feb 28, Tu			
13.	•	Growth: Golden Rule/Population		
	Mar 2, Th Problem Set 5 Due at 17:00. Mar 2-4, Th-Sa TEST 2. TA Review during class time, Mar 2, Th.			
1.4			그는 것이 하면 하는 것이 모든 사람들이 가는 사람들이 되었다. 그는 사람들이 가지를 하는 것이 되었다. 그렇게 되었다면 하는 것이 없는 것이었다면 없는 것이 없는 것이었다면 없는 것이 없는 것이었다면 없는 없는 것이었다면 없는 없는 것이었다면 없는 없는 것이었다면 없어요. 되었다면 없는 것이었다면 없는 없는 것이었다면 없는 것이었다면 없었다면 없는 것이었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없	
14	Mar 7, Tu	그리고 있다면 많아서 보고 있다. 그리고 하지 않아요. 하는데 하는데 하지 않는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하	9: 216-224. 10: 229-231, 240-251	
15 16*	Mar 9, Th	Macroeconomic Fluctuations	11: 253-258, 260-261, 263-281	
16*	Mar 14, Tu	Building the IS-LM Model	12: 283-284, 287-290^, 294-304^	
17	Mar 14, Tu	Problem Set 6 Due at 17:00		
17	Mar 16, Th	Applying IS-LM 1	13: 307-314, 315-319	
10	Mar 17, F	LDE#2 due at 17:00	12, 210, 220	
18	Mar 21, Tu	Applying IS-LM 2	13: 319-330	
4.0%	Mar 21, Tu	Problem Set 7 Due at 17:00		
19*	Mar 23, Th	International IS-LM	14: 335-350, 354-359, 363	
20	Mar 28, Tu	Short-run Aggregate Supply	15: 371-374,376-380,381-385,386-388,390-391	
	Mar 28, Tu	Problem Set 8 Due at 17:00		
		이 없는 그렇게 하다 시간하다 가는 하고를 보면 열심했다. 이번 전환하다 때문에 이렇게 되는 것도 하는 것이 되었다면 살아 하는 것이다.	view during class time, Mar 30, Th.	
21	Apr 4, Tu	Dynamic Short-run Model	16: 399-404, 406-412, 421-423, 424-429	
22*	Apr 6, Th	Stabilization Policy	17: 431-434, 436-437, 439-447	
	Apr 6, Th	Problem Set 9 Due at 17:00		
23	Apr 11, Tu	Debt	18: 453-457, 460-472.	
24	Apr 13, Th	Financial System	19: All.	
	Apr 14, F	LDE#3 due at 17:00.		
25*	Apr 18, Tu	Overflow and Review		
	Apr 19, W		e Work (Problem Sets, LDEs) Due at 23:59.	
	Apr 20, Th	TA Final Review		
	Apr 25, Tu, 1	1:00-14:00 FINAL EXAM		

Quizzes due at 11:30 each class day starting with Class 2.

* Extra Credit Quizzes in class these days.

^ In these pages, ignore references to the Keynesian cross. Focus on the multipliers and the IS curve.