UNIVERSITY OF COLORADO BOULDER

Department of Economics

ECON7040: MACROECONOMIC THEORY II Spring 2024

Instructor:	Alessandro Peri
Time:	TTH 11:00-12:15PM
Location:	Econ 5
Class Zoom link:	https://cuboulder.zoom.us/j/91761043063
Phone:	(+1)3034927727
Email:	alessandro.peri@colorado.edu
O ce Hours:	ECON 112, Tuesday, 12:15-1:45pm
TA:	Boyang Yu, Tyler Anderson

COURSE DESCRIPTION

This course introduces the students to the study of modern macroeconomics theory. The course focuses on both the theoretical and numerical analysis of general equilibrium dynamic model, with a particular focus on the neoclassical growth model.

The course starts with the study of dynamic programming. This part of the course focuses on the theoretical features of dynamic models. In this context, we study in great details the rst ve chapters of *Recursive Methods in Economic Dynamics*, by Stokey, Lucas and Prescott. Over the course, we use dynamic programming to study the neoclassical growth model. When possible (not very often), we will learn how to nd a solution by hand. When not possible, we will rely on numerical methods.

The second section of the course, introduces frictions in a standard Rythea standardtr98283(.)(Ov)mSedescN4d,des

EVALUATION

Your nal grade is determined as a weighted average among Midterm I (30%) and Final Exam (70%). **Midterm and nal exam** are closed notes and books. No make-up tests will be given. **Problem sets** will be regularly assigned to cover the class material or explore other topics. You are required to work in group to complete the assignments. The group consists of 3/4 people that are formed in the rst week of classes. Problem sets are submitted, one version per group as indicated in the Chronogram (see section below). Late assignments will not be accepted.

Assessment	Date	%
Midterm I	3/21/24	30%
Final Exam	Wednesday, May 8, 4:30-7pm	70%

TEXTBOOK AND LECTURE NOTES

Textbooks

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King, R. and S. Rebelo (2000), *Resuscitating Real Business Cycles*, in Taylor and Woodford, Handbook of Macroeconomics, 1B, 931-42

Rebelo, S. (2005), *Real business cycle models: Past, present, and future?*, Scandinavian Journal of Economics, 107(2), 217-238

Stock, J. and M. Watson (2000), *Business Cycle Fluctuations in U.S. Macroeconomic Time Series*, in J. Taylor and M. Woodford eds., Handbook of Macroeconomics, 1A, 3-64

Chari, V., Kehoe, P. McGrattan, E. (2007), *Business cycle accounting* Econometrica, 3(5)

Kydland, F. and E.C. Prescott (1990), *Business Cycles: Real Facts and a Monetary Myth*, Quartely Review, Federal Reserve Bank of Minneapolis

MONEY, NOMINAL FRICTIONS AND MONETARY POLICY

The New Keynesian (NK) Model

Code: Solution of an NK Model in Dynare

Readings:

Gali, J. (2008), *Monetary Policy, In ation and the Business Cycle*, Princeton University Press, Chapters 2, 3 and 4.

Christiano, L., M. Eichenbaum, and C. Evans (1998), *Monetary Policy Shocks: What Have We Learned and to What End?*, in J.B. Taylor, and M. Woodford eds., Handbook of Macroeconomics, 1A, 65-148.

Clarida, R., J. Gali and M. Gertler (1999) *The Science of Monetary Policy: A New-Keynesian Perspective*, Journal of Economic Literature, 37, 1661-1707.

McCandless, G. and W. Weber (1995) *Some Monetary Facts*, Federal Reserve Bank of Minneapolis, Quarterly Review.

Smets, F. and R. Wouters (2007) *Shocks and Frictions in US Business Cycles: A Bayesian DSGE Approach*, American Economic Review, 97(3), 586-606.

CHRONOGRAM

Our rst class will be on Tuesday, Jan 16th from 11:00-12:15PM (see Spring 2024, rst day of classes). Here it is the tentative schedule.

Tuesday	Thursday
Jan 16th	18th 2
Introduction to Dynamic Programming	Instructions in Homework 0 Introduction to Dynamic Programming
23rd 3	25th 4
Introduction to Dynamic Programming	Introduction to Dynamic Programming

Tuesday	Thursday	
30th	5 Feb 1st	6
Introduction to Dynamic Programming	Hand In Homework 1	
	Introduction to Dynamic Programming	
6th	7 8th	8
Introduction to Dynamic Programming	Introduction to Dynamic Programming	

UNIVERSITY POLICIES

You should familiarize yourself with the following University of Colorado policies.

CLASSROOM BEHAVIOR

Students and faculty are responsible for maintaining an appropriate learning environment in all instructional settings, whether in person, remote, or online. Failure 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 race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political a liation, or political philosophy. For more information, see the classroom behavior policy, the Student Code of Conduct, and the O ce of Institutional Equity and Compliance.

REQUIREMENTS FOR INFECTIOUS DISEASE

Members of the CU Boulder community and visitors to campus must follow university, department, and

HONOR CODE

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the Honor Code. Violations of the Honor Code may include but are not limited to: plagiarism (including use of paper writing services or technology [such as essay bots]), cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty. All incidents of academic misconduct will be reported to Student Conduct & Con ict Resolution: honor@colorado.edu, 303-492-5550. Students found responsible for violating the Honor Code will be assigned resolution outcomes from the Student Conduct & Con ict Resolution as well as be subject to academic sanctions from the faculty member. Visit Honor Code for more information on the academic integrity policy.

SEXUAL MISCONDUCT, DISCRIMINATION, HARASSMENT AND/OR RELATED RETALIATION

CU Boulder is committed to fostering an inclusive and welcoming learning, working, and living environment. University policy prohibits protected-class discrimination and harassment, sexual misconduct (harassment, exploitation, and assault), intimate partner violence (dating or domestic violence), stalking, and related retaliation by or against members of our community on- and o -campus. These behaviors harm individuals and our community. The O ce of Institutional Equity and Compliance (OIEC) addresses these concerns, and individuals who have been subjected to misconduct can contact OIEC at