UNIVERSITY OF COLORADO

Department of Economics

ECON7040: MACROECONOMIC THEORY II

Spring 2014

Instructor: Martin Boileau

Class: Economics 2; MW 9:30 to 10:45
Office: Economics 215; W 13:30 to 15:30

Phone: (303) 492-2108

E-mail: Martin.Boileau@Colorado.EDU

COURSE DESCRIPTION

This course is the second part of the core macroeconomic theory doctoral sequence. We will focus our attention on dynamic optimization and general equilibrium models.

The course has two objectives. The first is the presentation of the tools required to study dynamic, stochastic, general equilibrium models. The second is the application of these tools to topics in macroeconomics.

EVALUATION

The assessment for this class consists of a two (2) term tests and a final exam. Tests and final exam are closed notes and closed books. No make-up tests will be given. The tentative schedule and the grade distribution are displayed in the table below.

Evaluation	Date	%
Term Test 1	Week 6: 19 February	25
Term Test 2	Week 12: 2 April	25
Final Exam	To be determined	50

REQUIRED TEXT

Ljungqvist, Lars and Thomas J. Sargent, Recursive Macroeconomic Theory, Cambridge: MIT Press.

BACKGROUND TEXTS

- Adda, Jerome and Russell W. Cooper, Dynamic Economics, Cambridge: MIT Press.
- Barro, Robert J. and Xavier Sala-i-Martin, Economic Growth, New York: McGraw Hill.
- Blanchard, Olivier J. and Stanley Fischer, *Lectures on Macroeconomics*, Cambridge: MIT Press.
- Farmer, Roger E., The Macroeconomics of Self-Fulfilling Prophecies, Cambridge: MIT Press.
- Romer, David, Advanced Macroeconomics, New York: McGraw-Hill.
- Sargent, Thomas J., *Dynamic Macroeconomic Theory*, Cambridge: Harvard University Press.
- Stokey, Nancy L. and Robert E. Lucas, Recursive Methods in Economic Dynamics Cambridge: Harvard University Press.

COURSE OUTLINE

I. INTRODUCTION: TWO-PERIOD ECONOMIES

- 1. A Pure Exchange Economy
 - Boileau, Lecture Notes Sections 1 to 4
 - Farmer: Chapter 4
- 2. A Production Economy
 - Boileau, Lecture Notes Sections 5 and 6

II. DYNAMIC PROGRAMMING AND APPLICATIONS

- 1. Dynamic Programming
 - Ljungvqist and Sargent: Chapter 3
 - Boileau: A Child's Guide to Dynamic Programming
- 2. A Real Business Cycle Model
 - Farmer: Chapters 2 and 3
 - Ljungvqist and Sargent: Chapter 12
 - Romer: Chapter 4
 - King, Robert G., Charles I. Plosser, and Sergio T. Rebelo, 1988. Production, Growth, and Business Cycles: I. The Basic Neoclassical Model, *Journal of Monetary Economics* 7, 67–82.
- 3. Numerical Issues
 - Ljungvqist and Sargent: Chapters 4 and 5
 - King, Robert G., Charles I. Plosser, and Sergio T. Rebelo, 2002. Production, Growth, and Business Cycles: Technical Appendix, Computational Economics 20, 87–116.
 - Uhlig, Harald, 1997. A Toolkit for Analyzing Nonlinear Dynamic Stochastic Models Easily.
 - Griffoli, Tommaso M., 2013. Dynare: User Guide.

III. DYNAMIC GENERAL EQUILIBRIUM

- 1. Equilibrium with Complete Markets
 - Ljungvqist and Sargent: Chapter 8
- 2. Incomplete Markets and Self Insurance
 - Ljungvqist and Sargent: Chapters 17 and 18
- 3. Asset Pricing Theory
 - \bullet Ljungvqist and Sargent: Chapter 13
- 4. Search and Matching
 - Ljungvqist and Sargent: Chapters 6 and 28

University Policies

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

- 1. University policies regarding classroom behavior are available at http://www.colorado.edu/policies/classbehavior.html
- 2. University policies regarding disabilities are available at http://www.colorado.edu/disabilityservices.
- 3. University polices regarding religious practice are available at http://www.colorado.edu/policies/fac_relig.html.
- 4. University policies regarding Sexual Harassment and Amorous Relationships are available at

http://www.colorado.edu/odh/.

5. Information regarding the Honor Code Council is available at http://www.colorado.edu/policies/honor.html

http://www.colorado.edu/academics/honorcode/.