Economics 751: Macroeconomic Theory II

Professor Susanto Basu

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Office: Maloney Hall 474
Office Hours: Wednesday 2-3pm and after class
Email: basusd@bc.edu (put “Econ 751” in the subject line)

Overview

This course is divided into four sections. Part I is a short introduction. Part II will cover consumption and asset pricing. Part III will introduce business-cycle theory with flexible prices. Part IV will cover monetary models, including business-cycle theory with nominal rigidities.

Prerequisites

This is a course for first-year PhD students. It assumes that everyone has had the first-semester macro, micro, math and stats classes, and is concurrently enrolled in second-semester micro and econometrics.

Requirements

There will be an in-class midterm on February 28 (Thursday), and a final examination. The final examination date and time will be announced by the Director of Graduate Studies.

Problem sets will be assigned regularly. Students are encouraged to discuss these problems among themselves in study groups. Experience shows that students gain the most benefit from the problem sets by making a serious individual effort to do the problems first, and then working collaboratively to clear up difficulties afterwards.

Grades

The overall course grade will depend on the midterm (33%) and final (67%). The midterm score will be discounted if the final shows significant improvement.

Problem sets should be turned in but will not be graded. However, students who do not devote significant time to the problem sets are unlikely to do well in the course or on the comprehensive
examinations. The teaching fellow will provide detailed problem set solutions, but will not give extensive comments on individual problem sets.

Readings

Core readings (marked with a *) and further readings are listed under each heading of the course outline. Everyone should carefully read and think about the core readings. The further readings include classic articles, more advanced or detailed treatments of the topics, and background material. Students with a strong interest in macroeconomics in general or in a particular topic should be familiar with these readings.

There is no single textbook for the course. We will use portions of the following books:


(It is probably worthwhile purchasing the Romer and Walsh texts. We will use only a single chapter of McCandless.)

The following books provide alternative perspectives that may be useful:


I. Introduction to Business Cycles: IS-LM

A. The Basic Model

Mankiw, *Macroeconomics*, chs. 10-11 (or similar material from another text)


B. The Model with Some Optimization


Romer, *Advanced Macroeconomics*, 6.1-6.4

II. Consumption and Asset Pricing

A. Consumption

i. Introduction to the Life-Cycle and Permanent-Income Hypotheses

*Romer, Advanced Macroeconomics*, 8.1


ii. The Euler Equation; Consumption Puzzles; Time Inconsistency

*Romer, Advanced Macroeconomics*, 8.2-8.3


*Romer, Advanced Macroeconomics*, 8.4


*Obstfeld-Rogoff, 2.1-2.3

iii. Liquidity Constraints, Rule of Thumb Consumers


B. Second-Moment Effects: Asset Pricing, Precautionary Saving

i. Consumption CAPM

*Romer, 8.5
*Blanchard-Fischer, 10.1.
Barsky, “Why Don't the Prices of Stocks and Bonds Move Together?” AER 79 (1989)

ii. Precautionary Saving

*Romer, Advanced Macroeconomics, 8.6
III. Real Models of Business Cycles

A. Introduction and Stylized Facts


B. Competitive Equilibrium Business-Cycle Models

i. Overview, Basic Issues, Log-Linearization

*McCandless, ch. 6
Romer 5.2-5.7
Obstfeld-Rogoff, 7.4 (esp. 7.4.3).

ii. Complete Models and Calibration


iii. Discussion and Evaluation

Romer, 5.8-5.10
C. What Do Technology Shocks Do?


D. Externalities and Imperfect Competition: Theory and Evidence


E. Coordination Failures and Multiple Equilibria


F. Macroeconomics and the Labor Market:
Efficiency Wages, Search, Hysteresis

*Romer, 10.1-10.4, 10.8

*Romer, 10.6-10.7
IV. General-Equilibrium Models with Money

A. Introduction and Stylized Facts

*Romer 7.6
*Walsh ch. 1

B. Money and Inflation with Flexible Prices

*Walsh ch. 2
Blanchard-Fischer 4.1-4.2, 4.5-4.7
Woodford ch. 2

C. Output and Inflation with Sticky Prices: Models without Capital

*Walsh ch. 8
*Walsh ch. 6 (skim 6.2)
Woodford ch. 3
D. Output and Inflation with Sticky Prices: Models with Capital