ECON 269A
MONETARY POLICY I
Winter 2006

Professor: Fabio Milani, fmilani@uci.edu
Office Hours: SSPA 3145, Tue 3.30-5.00 PM

Time and Location: Tu-Th 2.00-3.20 PM
Course Webpage: http://www.socsci.uci.edu/~fmilani/econ269a.html

Grading:

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Course description:
The course focuses on the derivation and estimation of state-of-the-art DSGE models, with particular emphasis on models useful for monetary policy.
You will learn:
- to build macroeconomic models with microeconomic foundations.
- to solve rational expectations models.
- to estimate macroeconomic models using Bayesian methods.

Textbook: There is no single textbook required.
We won't follow a particular book, but some of these can serve as reference if you are interested in macro

- Woodford, Interest and Prices
- Walsh, Monetary Theory and Policy
- Obstfeld and Rogoff, Foundations of International Macroeconomics
- Heer and Maussner, Dynamic General Equilibrium Modelling: Computational Methods and Applications
- Pissarides, Equilibrium Unemployment
For the econometrics used in the course, these books might be useful:

- **Gary Koop**, *Bayesian Econometrics*
- **John Geweke**, *Contemporary Bayesian Econometrics and Statistics*.

**Referee Report**

You will need to write a referee report on one of the papers listed on the course webpage. I have chosen job market papers by students in macroeconomics in different departments. Instructions on how to write a referee report are also available there. Deadline: **February 3**.

**In-Class Presentation**

There will be an in-class presentation on one of the following (we can decide):
- your idea for the paper (present literature, what is missing, your idea, etc.)
- paper at an early stage
- one topic from the syllabus

**Paper**

In the course, you will write a paper, which will count for 70% of your final grade. Ideally, the paper should consist of an estimation of a macroeconomic model of your choice using Bayesian methods to study a particular research question. The paper can focus on each of the topics studied in the course (or mentioned in the syllabus), or another macroeconomic topic of your choice. In both cases, we need to discuss the topic before you start working on it. I will provide some possible ideas at the beginning of the course.
Topics

1. Dynamic Stochastic General Equilibrium (DSGE) Models: Overview

1.1 Monetary DSGE Models

- Woodford, Interest and Prices, 2003. Chapters:
- Walsh, Monetary Theory and Policy. Chapters:

1.2 Real Business Cycles (RBC) Models


1.3 Open Economy Models (New Open Economy Macroeconomics - NOEM)

- Obstfeld and Rogoff, Foundations of International Macroeconomics. Chapters:
- Gali and Monacelli, (2005). Monetary Policy and Exchange Rate Volatility in a Small Open Economy, RES.

2. Solving and Estimating DSGE Models

Bayesian Estimation:

Gary Koop, *Bayesian Econometrics*
John Geweke, *Contemporary Bayesian Econometrics and Statistics*
Fabio Canova, *Methods for Applied Macroeconomic Research*
Schorfheide, *Bayesian Methods for Macroeconometrics*
Heer and Maussner, *Dynamic General Equilibrium Modelling: Computational Methods and Applications*

2.1 Monetary DSGE Models


2.2 RBC Models


2.3 Open Economy Models

☞ Bergin, (2003). *Putting the 'New Open Economy Macroeconomics' to a test,* JIE
☞ Lubik and Schorfheide (2005). *A Bayesian Look at New Open Economy Macroeconomics, NBER Macro Annual*
☞ Justiniano and Preston (2005). ...
☞ Fuesta and Rabanal (2004). *Euro-Dollar Real Exchange Rate Dynamics in an Estimated Two-Country Model: What is Important and What is Not*

3. Estimating DSGE Models with Learning

3.1 Models with Adaptive Learning

Webpage: *Adaptive Learning in Macroeconomics*

3.2 Estimating Models with Learning
Milani, Fabio (2004). *Expectations, Learning and Macroeconomic Persistence*
Sargent, Williams, and Zha (2005). *Shock and Government Beliefs: the Rise and Fall of American Inflation*, *AER*

4. A-Theoretical Models: VARs and Bayesian VARs

4.1 Estimating VARs, SVARs, and BVARs. Identifying the Effects of Monetary Policy

Christiano, Eichenbaum, and Evans (1999). *Monetary Policy Shocks: What Have We Learned, and To What End*
Sims and Zha (1999). *What Does Monetary Policy Do?*, *BPEA*

4.2 Factor-Augmented VARs

Belviso and Milani (2003). *Structural Factor-Augmented VAR (SFAVAR) and the Effects of Monetary Policy*

5. Post-War U.S. Monetary Policy: Has it Changed?

Sims and Zha (2005) *Were There Regime Switches in US Monetary Policy?*, *AER*
Canova and Gambetti (2005). *Structural Changes in the US Economy: Bad Luck or Bad Policy*

6. Incorporating Labor Market Frictions in DSGE Models

Shimer (2005). *Reassessing the Ins and Outs of Unemployment*
Walsh (2005) *Labor Market Search, Sticky Prices, and Interest Rate Policies*, *RED*


Nason and Slotsve (2004). *Along the New Keynesian Phillips Curve with Nominal and Real Rigidities*


**REFeree REPORT**

*Guidelines, RIE hints for referees, CJE's advice*

Write a referee report on one of the following papers (they are job market papers by students in macroeconomics):

Braun (JMP 2005) *Un)Employment Dynamics: The Case of Monetary Policy Shocks*

Beechey (JMP 2004) *Excess Sensitivity and Volatility of Long Interest Rates: The Role of Limited Information in Bond Markets*


Molnar (JMP 2005) *Optimal Monetary Policy when Agents are Learning*

Zhao (JMP 2005) *Monetary Policy under Mis-specified Expectations*

An (JMP 2005) *Bayesian Estimation of DSGE Models: Lessons from Second-Order Approximations*

Justiniano (JMP 2003) ...