Preliminary Course Outline and Reading List*

Items marked “W” are available on the web. If viewed on screen with an up to date viewer, this file will show links to the bibliography at the end and to URL’s where the paper can be downloaded (in cases where they exist).

**Topic 1: Transversality and Stochastic Lagrange Multipliers**

- Pitfalls of conventional TVC’s. Sufficiency for concave problems.
- The linear-quadratic permanent income model revisited. Setting up a DSGE for solution.

References:
- Notes: “Random Lagrange Multipliers and Transversality” (Sims, 2000) W
- Notes: “Stochastic Lagrange Multipliers for Problems with Lagged Expectations” W

**Topic 2: Linearizing and Solving RE DSGE Models**

- Getting the computer to do the hard work for bigger models. Continuous and discrete time. Avoiding the need to discover artificial predetermined variables in DSGE’s. Perils of root counting. Pitfalls of linearization.

References:
- “Solving Linear Rational Expectations Models” (Sims, 2001b) W
- Notes on pitfalls of linearization. Woodford (2003, Sections 6.1-2)

**Topic 3: Micro-foundations for stickiness**

- Dixit-Stiglitz-Blanchard-Kiyotaki-Calvo; “non-allocative” inertial contract prices; time-dependent vs. state-dependent adjustment; inattention; micro evidence

References:
- “Some Evidence on the Importance of Sticky Prices”, (Bils and Klenow, 2004)
- “Stickiness” (Sims, 1998) W (Only the models of “neutral stickiness”, in the first part of the paper, and the appendix, are relevant here.)
- “Reference Prices and Nominal Rigidities” (Eichenbaum, Jaimovich, and Rebelo, 2008)
- “Implications of Rational Inattention” (Sims, 2003)

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Book on information theory (and inference, and computer learning) (MacKay, 2003)
“Rationally Inattentive Seller: Sales and Discrete Pricing” (Matějka, 2008)
Woodford (2003, Sections 4.1-4.2.2, 2.1-2)

**Topic 4: Models for Monetary Policy: Structural VAR’s and DSGE’s**

**References:**
“Interpreting the Macroeconomic Time Series Facts” (Sims, 1992)
“Do monetary policy shocks matter in the G-7 countries?” (Kim, 1999)
“Does Monetary Policy Generate Recessions?” (Sims and Zha, 1998)

**Topic 5: The Fiscal Theory of the Price Level**
Existence and uniqueness with active and passive monetary and fiscal policies; liquidity traps; central bank balance sheets.

**References:**
“Equilibria Under ‘Active’ and ‘Passive’ Monetary And Fiscal Policies” (Leeper, 1991)
“Price Level Determinacy Without Control of a Monetary Aggregate” (Woodford, 1995)
“Money as Stock: Price Level Determination with No Money Demand“ (Cochrane, 1999)
“Limits to Inflation Targeting” (Sims, 2005)
“Monetary Policy and Multiple Equilibria”, (Benhabib, Schmitt-Grohe, and Uribe, 2001)
“The Zero Interest-Rate Bound and Optimal Monetary Policy” (Eggertsson and Woodford, 2003)

**Topic 6: Macro Models with Credit Frictions**
Financial accelerator; efficiency effects from bankruptcy laws

**References:**
“Bankruptcy Law, Capital Allocation, and Aggregate Effects: A Dynamic Heterogeneous Agent Model with Incomplete Markets” (Zha, 2001)
“A Model of Unconventional Monetary Policy”, (Gertler and Karadi, 2009)
**Topic 7: Intertemporal Aspects of Fiscal Policy**

Identification problems in estimating effects; tax smoothing; optimal capital taxation; optimal inflation taxes; the burden of public debt; natural resource exhaustion.

References:


“Optimal Fiscal and Monetary Policy in an Economy without Capital” (Lucas and Stokey, 1983)

“Federal Deficit Policy and the Effects of Public Debt Shocks” (Barro, 1980)

“Fiscal Consequences for Mexico of Adopting the Dollar” (Sims, 2001a)

“Optimal Taxation of Capital Income in General Equilibrium with Infinite Lives” (Chamley, 1986)

“Optimal Taxation Without State-Contingent Debt” (Marcet, Sargent, and Seppälä, 2000)

“National Debt in a Neoclassical Growth Model” (Diamond, 1965)

“Debt, Deficits, and Finite Horizons” (Blanchard, 1985)

**Topic 8: International Risk Sharing and Transmission of Business Cycles**

References:

“Domestic Savings and International Capital Flows” (Feldstein and Hor-rioka, 1991)


**Topic 9: Exchange Rates and Exchange Rate Crises**

First generation; second generation; fiscal.

References:

Rogoff and Obstfeld (1996, Sections 8.1-8.4)

“Fiscal Foundations of Price Stability in Open Economies”, (Sims, 1997)


**Topic 10: Policy Games and Learning**

References:

“Rules rather than discretion: The inconsistency of optimal plans” (Kydland and Prescott, 1977)
“A Positive Theory of Monetary Policy in a Natural Rate Model” (Barro and Gordon, 1983)
The Conquest of American Inflation (Sargent, 1999)
“Projecting Policy Effects with Statistical Models” (Sims, 1988)
“Laboratory Experiments with an Expectational Phillips Curve” (Arifovic and Sargent, 2003)

Topic 11: Using Models to Formulate Policy
Comparing quantitative policy models to academic models; the role of quantitative models in the policy process — rules, commitment, targets; does the Lucas critique imply there is no such thing as real time policy analysis?

References:
“Macroeconomic Modeling for Monetary Policy Evaluation”, (Galí and Gertler, 2007)
“Policy Rules for Inflation Targeting” (Rudebusch and Svensson, 1999)
“Modest Policy Interventions” (Leeper and Zha, 2001)
“Autoregressions, Expectations and Advice” (Sargent, 1984)
“A Rational Expectations Framework for Short Run Policy Analysis” (Sims, 1987)

Topic 12: (Possible topic if we have time: A Brief Survey of Solution Methods for Nonlinear Equilibrium Models
Higher order expansions; Projection methods; parameterized expectations; fixed-point methods; checking accuracy.

References:
Numerical Methods in Economics (Judd, 1998)
“Solving the Stochastic Growth Model by Parameterizing Expectations”, (den Haan and Marcet, 1990)
“Accuracy in Simulations”, (den Haan and Marcet, 1994)

REFERENCES


