Economics 81100  Monetary theory and policy
CRN 60953
Tuesdays 2:00-4:00
Office hours:  Tuesday 4:00-5:00, or whenever you can find me
(email is a good way).  Also other times by appointment.

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Comment:  some of these topics below have been introduced in Macro I up through fall semester 2017. Where the monetary topics were introduced in Macro I they appear here at an advanced level.

The basic textbook for this class will be Walsh, C. E. (2017), *Monetary Theory and Policy, 4th Edition*, the MIT Press. I also will be using some parts of Gali, J. (2015), *Monetary Policy, Inflation, and the Business Cycle: An Introduction to the New Keynesian Framework*, Princeton Univ. Press. There will be class projects, which will include problems as well as derivations of expressions in the text. There will be a final examination which probably should not require much special preparation for students who have followed the class carefully up to the date of the examination. Finally, there is a semester term paper which will involve simulating a DSGE model. Details follow.

The Graduate Center no longer provides free, take-home copies of Mathematica. However, Maple 18 can be obtained free from the CUNY Portal. MATLAB is available from the Graduate Center, and Dynare is free-download. You will need to become at least moderately proficient in the use of one or the other in order to complete the projects. It is important to get this started early in order to avoid delays in completing the paper.

DSGE (or DGE) Projects

In classes September 10 and/or September 24 the preliminary instructions in Dynare/MATLAB will be issued.

The objective of the projects is to learn about the construction and interpretation of DSGE models. The assignment is to choose a paper from the literature, (a) analyze the parameterization/calibration used in the paper; (b) simulate the model; (c) analyze the sensitivity of the model to its calibrated values.

You can select paper you like, subject to the instructor’s approval. If you are advanced, and with the instructor’s approval, you do some original work. Some dates/deadlines:
Declaration of topic deadline – September 17
Short presentations (10 minutes) of topics – October 15
Class presentation of paper (30 minutes) – December 3, 10
Deadline for submission of final paper – December 13

Here are some ideas of papers to look at:


Some papers I came across recently:


Papers on “targeting”:


**Learning goals and outcomes**

This is a field course in the monetary side of macroeconomics. A field exam will be offered in this field in August 2020 to satisfy in part the requirements for the Second Examination.

- Students will learn a major part of the modern literature on monetary theory and policy at the Ph.D. level.
- The “standard” topics include basic instruments and rules, money in utility and variants, money in the New Keynesian model, money and public finance, and monetary transmission.
- Special emphasis will be put on inflation and price level targeting in the context of the NKM model.
- Students will initiate, complete, and present results of research projects involving DSGE models.
Assessment

Assessment will come in the form of a final examination, a DSGE project, assorted homework and assignments. The weights for the final grade will consist of (1) final examination – 50%; (2) DSGE project – 40%; (3) other homework and assignments – 10%.

Course Outline and Reading List
(Class dates are estimates.)

I. Monetary policy: indicators, instruments, target issues  (Aug 27, Sep 3)

References:
Text pages: Walsh, Chapter 11, especially pp. 563-578; 581-590; 595-603.
FOMC Minutes, September 2007 and December 2013
FOMC Minutes, September 2007 and December 2013
Poole (1980)
Friedman (1990) should be read over quickly as a general (and now historical) survey.
Bernanke, Ben, and Illian Mihov (1998): the econometrics are interesting, but the main purpose here is the specification of the reserve markets, also discussed in Walsh, 11.4 (pp. 563-578) and 11.5 (595-603).

II. Updates on the demand for money, introduction to Dynare/MATLAB  (Sep 10, Sep 17)

Note: declaration of paper topic by September 17.

We will review the “money in utility” model as exposited by Walsh.

References:
Text pages: Walsh, Chapter 2 (pp. 33-61), Chapter 3 (pp. 91-106).
Sidrauski (1967)
Brock (1974)

We will solve and discuss Problems 1 and 2 in Walsh pp. 87-88. We will introduce Dynare/MATLAB for future use.

III. Time consistency in monetary and fiscal policy (Sep 24)

Note: October 15 start short (15 minutes) project presentations.
a. Quick review of Barro and Gordon (1983)
   References: Walsh, Chapter 7, pp. 271-283
b. Solutions to inflation bias
   References: Walsh 7, pp. 283-323
   Backus and Driffill (1985)

IV. New Keynesian Model and money in NKM (Oct 15, Oct 22, Oct 29, Nov 5)

   Texts: Walsh Chapter 8, Gali Chapter 5.
   The main emphasis in this section will be on simulating it and the following particular issues:

   a. Different levels of inflation commitment.

      References:
      Inter alia, an important (but only partial) reference will be Walsh (chapter 8), pp. 352-366.
      Walsh (2003) – “speed limit” article
      Clarida, Gali, Gertler (1999)
      Marest and Thurston (2018)
      (See also targeting papers listed in the introduction.)

   b. Determinacy conditions

   c. Some problems and a recent challenge to the NKM model. Cochrane (2011) has written an important article challenging usefulness of the workhorse” NKM on two grounds: the Taylor rule cannot be statistically identified, and besides, the model does not actually yield unique solutions in theory. We will take time to analyze this article.

      References:
      Cochrane (2011)

   d. Comments on zero bound and trend inflation.

      References:
      Walsh, Chapter 4, pp. pp. 256-257; p. 336; p. 343.
      Woodford (2012)
      Kiley (2004)
      Ascari (2007)

V. Money and public finance (Nov 12)

   a. Budget accounting, balance, and some “unpleasant monetarist arithmetic”

      References:
      Walsh, Chapter 4, pp. 135-162
      Sargent and Wallace (1981)

   b. The fiscal theory of the price level

      References:
      Walsh, Chapter 4, pp. 162-170
Leeper (1991)

c. Optimal taxation and seigniorage
   References:
   Walsh, Chapter 4, pp. 170-174, p. 191.
   Phelps (1973)

d. Fiscal multipliers in DSGE
   References:
   Woodford (2011)

VI. Monetary Transmission (Nov 19, Nov 26)

   Note: Dec 3 start project presentations. (30 minutes each).

   a. Credit Rationing
      References:
      Walsh, 10.5, pp. 477-492.
      Jaffee, Dwight and Joseph Stiglitz. (1990)
   b. Financial Accelerators, etc.
      References:
      Walsh, Chapter 10.6, pp. 502-508
      Boivin, Kiley, Mishkin (2010)
      Bernanke, Ben; Mark Gertler; Simon Gilchrist. (1996)
      Bernanke, Ben S.; Mark Gertler (2001)

VII. Complete presentations and left-over topics (Dec 3, Dec 10)
VIII. Final examination December 17.

   Note: deadline for paper submission is Dec 23.
REFERENCES


Bernanke, Ben, and Illian Mihov. “Measuring Monetary Policy,” The Quarterly Journal of Economics, August 1998, pp. 869-902. The econometrics are interesting, but the main purpose here is the specification of the reserve markets.


