UNIVERSITY OF CALIFORNIA, SAN DIEGO Department of Economics

SPRING 2014 Economics 210C J. Wieland

BUSINESS CYCLES

Class Meets: M, W 8:00-9:20, Econ 300

Grading:

Homework= 10% (check \pm)Midterm= 30%Final= 60% (cumulative)

SYLLABUS

Professor: Johannes Wieland Email: jfwieland@ucsd.edu Office: Econ 309 Office Hours: Tu 9am-10am, or by appointment.

TA: Nelson Lind Email: <u>nrlind@ucsd.edu</u> Section time: TBA Office: TBA Office Hours: W 1pm-2:30pm, or by appointment.

Main textbooks:

David Romer, 2011. Advanced Macroeconomics. 4th edition. McGraw-Gill. Jordi Gali, 2008. Monetary Policy, Inflation, and the Business Cycle: An Introduction to the New Keynesian Framework. Princeton University Press.

Recommended textbooks:

Carl Walsh, 2010. *Monetary Theory and Policy*. MIT Press. Olivier Blanchard and Stanley Fischer. 1989. *Lectures on Macroeconomics*. MIT Press. Michael Woodford, 2003. *Interest and Prices*. Princeton University Press.

COURSE OUTLINE

Starred papers are required readings.

Overview

*Romer, sections 5.1.

Walsh, Chapter 1.

*Robert Lucas, 1977. "Understanding Business Cycles," *Carnegie-Rochester Conference* Series on Public Policy 5: 7-29.

*James Stock and Mark Watson, 1999. "Business Cycle Fluctuations in U.S.

Macroeconomic Time Series," *Handbook of Macroeconomics*, Chapter 1. Robert Barsky and Jeffrey Miron, 1989. "The Seasonal Cycle and the Business Cycle,"

Journal of Political Economy 97 (3): 503-534.

Milton Friedman and Anna Schwartz, A Monetary History of the United States, 1867-1960. Princeton University Press, 1963. (Especially ch. 7).

James Stock and Mark Watson, 2002. "Has the business cycle changed and why?" NBER Macroeconomics Annual 2002, p 159

A (very brief) History of Thought

*N Gregory Mankiw, 2006. "The Macroeconomist as Scientist and Engineer." *Journal of Economic Perspectives*, 20(4): 29-46.

Robert E. Lucas Jr, "Econometric policy evaluation: A critique," *Carnegie-Rochester Conference Series on Public Policy*, Volume 1, 1976, Pages 19-46

Competitive Equilibrium Business-Cycle Models

A. Overview, Basic Issues, Log-Linearization

*Romer 5.2-5.7.

*Harold Uhlig, "A Toolkit for Analyzing Nonlinear Dynamic Stochastic Models Easily," in Marimon and Scott (eds.), Computational Methods for the Study of Dynamic Economies. Available at <u>http://www.wiwi.hu-</u> berlin.de/wpol/html/toolkit/toolkit.pdf

*Miles Kimball, 2004. Real Business Cycle Theory: A Semiparametric Approach, Chapter 10. Available at <u>http://www.umich.edu/~mkimball/Econ611/book-ec611-2004.pdf</u>

Obstfeld and Rogoff, 7.4 (esp. 7.4.3).

Olivier Blanchard and Charles Kahn, 1980. "The Solution of Linear Difference Models under Rational Expectations," *Econometrica* 48(5): 1305-1311.

B. Complete Models and Calibration

*Romer, 5.8.

- *Robert King, Charles Plosser and Sergio Rebelo, 1988. "Production, Growth and Business Cycles: I. The Basic Neoclassical Model," *Journal of Monetary Economics* 21 (2-3): 195-232.
- Robert King and Sergio Rebelo, 1999. "Resuscitating Real Business Cycles," *Handbook* of Macroeconomics, Chapter 14.

Thomas Cooley and Edward Prescott, 1995. "Economic Growth and Business Cycles," in Cooley, ed., *Frontiers of Business Cycle Research* (Princeton: Princeton University Press), Chapter 1.

C. Discussion and Evaluation

*Romer, 5.10.

- *Timothy Cogley and James Nason, 1995. "Output Dynamics in Real-Business-Cycle Models," *American Economic Review* 85(3): 492-511.
- *Julio Rotemberg and Michael Woodford, 1996. "Real-Business-Cycle Models and the Forecastable Movements in Output, Hours, and Consumption," *American Economic Review* 86(1): 71-89.
- Larry Summers, 1986. "Some Skeptical Observations on Real Business Cycle Theory." Federal Reserve Bank of Minneapolis Quarterly Review, Fall 1986.
- Edward Prescott, 1986. "Response to a Skeptic" Federal Reserve Bank of Minneapolis Quarterly Review, Fall 1986.
- Sergio Rebelo, 2005. "Real Business Cycle Models: Past, Present and Future," Scandinavian Journal of Economics 107(2): 217-238.
- Charles Plosser, 1989. "Understanding Real Business Cycles," *Journal of Economic Perspectives* 3(3): 51-77.
- N. Gregory Mankiw, 1989. "Real Business Cycles: A New Keynesian Perspective," *Journal of Economic Perspectives* 3(3): 79-90.

D. Variable Factor Utilization

- *Jeremy Greenwood, Zvi Hercowitz and Gregory W. Huffman, 1988. "Investment, Capacity Utilization, and the Real Business Cycle," *American Economic Review* 78(3): 402-417.
- Craig Burnside and Martin Eichenbaum, 1996. "Factor-hoarding and the Propagation of Business-cycle Shocks," *American Economic Review* 86(5):1154 -1174.

E. RBC Models with Non-Neoclassical Features

- *Julio Rotemberg and Michael Woodford, 1995. "Dynamic General Equilibrium Models with Imperfectly Competitive Product Markets," in Cooley, ed., *Frontiers of Business Cycle Research*, Chapter 9. (Also available as NBER WP 4502).
- *Susanto Basu and John Fernald, 1997. "Returns to Scale in U.S. Production: Estimates and Implications," *Journal of Political Economy* 105(2): 249-283.
- Marianne Baxter and Robert King, 1991. "Productive Externalities and the Business Cycle," unpublished manuscript. Available at http://www.minneapolisfed.org/research/DP/DP53.pdf

F. Macroeconomics and the Labor Market (time permitting)

*Romer, 10.1-10.4, 10.6-10.9

- *Gary Hansen and Randall Wright, 1992. "The Labor Market in Real Business Cycle Theory," Federal Reserve Bank of Minneapolis Quarterly Review, Spring 1992.
- Katharine Abraham and John Haltiwanger, 1995. "Real Wages and the Business Cycle," *Journal of Economic Literature* 33(3): 1215-1264.
- Michelle Alexopoulos, 2004. "Unemployment and the Business Cycle," *Journal of Monetary Economics* 51(2): 277-298.

Robert Hall, 2005. "Employment Fluctuations with Equilibrium Wage Stickiness," *American Economic Review* 95 (1): 50-65.

Olivier Blanchard and Larry Katz, 1997. "What We Know and Do Not Know About the Natural Rate of Unemployment." *Journal of Economic Perspectives* 11(1): 51-72.

Monetary Business Cycles

- A. Staggered Price Setting
- *Romer, Chapters 6 and 7.
- *Gali, Chapters 2 and 3.
- Woodford, Sections 3.1 and 3.2.
- Walsh, Chapters 6 and 8.
- *Larry Ball and David Romer, 1990. "Real Rigidities and the Non-Neutrality of Money." *Review of Economic Studies* 57 (2): 183-203.
- *Peter J. Klenow and Benjamin A. Malin, "Chapter 6 Microeconomic Evidence on Price-Setting" in: Benjamin M. Friedman and Michael Woodford, Editor(s), *Handbook of Monetary Economics*, Elsevier, 2010, Volume 3, Pages 231-284.
- Miles Kimball, 1995. "The Quantitative Analytics of the Basic Neomonetarist Model," *Journal of Money, Credit and Banking* 27(4): 1241-1277.
- V.V. Chari, Pat Kehoe and Ellen McGrattan, 2000. "Sticky-Price Models of the Business Cycle: Can the Contract Multiplier Solve the Persistence Problem?" *Econometrica* 68(5): 1151-1179.
- B. Optimal policy and the zero bound
- *Romer, Chapter 11.
- *Gali, Chapter 4.
- Woodford, Sections 4.2, 6.1-6.2.
- Walsh, Chapters 8.4 and 11.
- *Richard Clarida, Jordi Galí, and Mark Gertler, 2000. "Monetary policy rules and macroeconomic stability: evidence and some theory," *Quarterly Journal of Economics* 115, (1), 147-180.
- *Gauti Eggertsson and Michael Woodford, 2003. "Zero bound on interest rates and optimal monetary policy," *Brookings Papers on Economic Activity*, (1), 139-233.
- Richard Clarida, Jordi Galí, and Mark Gertler, 1999. "The Science of Monetary Policy: A New Keynesian Perspective." *Journal of Economic Literature* 37 (4): 1661-1707.
- Marvyn King, 2005. "What Has Inflation Targeting Achieved?" in *The Inflation-Targeting Debate*, Ben Bernanke and Michael Woodford, eds., University of Chicago Press.
- Lars E.O. Svensson, 2010. "Chapter 22 Inflation Targeting," in: Benjamin M. Friedman and Michael Woodford, Editor(s), *Handbook of Monetary Economics*, Elsevier, 2010, Volume 3, Pages 1237-1302.
- Laurence Ball, 2010. "Chapter 23 The Performance of Alternative Monetary Regimes," in: Benjamin M. Friedman and Michael Woodford, Editor(s), *Handbook of Monetary Economics*, Elsevier, 2010, Volume 3, Pages 1303-1343.
- Paul Krugman, 1998. "It's Baaack: Japan's Slump and the Return of the Liquidity Trap," Brookings Papers on Economic Activity, 1998, (2), 137–205.
- Lawrence Christiano, Martin Eichenbaum, and Sergio Rebelo, 2011. "When is the Government Spending Multiplier Large?" *Journal of Political Economy* 119(1): 78-121

Credit Cycles

- * Ben Bernanke, Mark Gertler, and Simon Gilchrist, 1999. "The financial accelerator in a quantitative business cycle framework," *Handbook of Macroeconomics*, Chapter 21.
- * Gauti B. Eggertsson and Paul Krugman, 2012. "Debt, Deleveraging, and the Liquidity Trap: A Fisher-Minsky-Koo Approach," *The Quarterly Journal of Economics*, 127 (3): 1469-1513
- Nobuhiro Kiyotaki and John Moore, 1997. "Credit cycles," *Journal of Political Economy* 105:211-248.
- Mark Gertler and Nobuhiro Kiyotaki, 2010. "Chapter 11 Financial Intermediation and Credit Policy in Business Cycle Analysis," in: Benjamin M. Friedman and Michael Woodford, Editor(s), *Handbook of Monetary Economics*, Elsevier, 2010, Volume 3, Pages 547-599.
- Anil Kashyap and Jeremy Stein, 2000. "What Do A Million Observations on Banks Have To Say About the Monetary Transmission Mechanism?" *American Economic Review* 90(3): 407-428.

Conditional model evaluation

A. Monetary Shocks

- Woodford Section 3.2-3.3 and Chapter 5
- *Christina Romer and David Romer, 2004. "A new measure of monetary shocks: Derivation and implications," *American Economic Review* 94 (4): 1055-1084.
- *Larry Christiano, Martin Eichenbaum, and Charles Evans, 2005. "Nominal Rigidities and the Dynamic Effects of a Shock to Monetary Policy," *Journal of Political Economy* 113 (1): 1-45.

B. Technology and oil price shocks

- *Jordi Galì, 1999. "Technology, Employment, and the Business Cycle: Do Technology Shocks Explain Aggregate Fluctuations?" *American Economic Review* 89: 249-271.
- *Susanto Basu, John Fernald, and Miles Kimball, 2006. "Are Technology Improvements Contractionary?" *American Economic Review* 96 (5): 1418-1448.
- Paul Beaudry and Franck Portier, 2006. "Stock Prices, News, and Economic Fluctuations," *American Economic Review* 96 (4): 1293-1307.
- Jeremy Greenwood; Zvi Hercowitz; Per Krusell, 1997. "Long-Run Implications of Investment-Specific Technological Change," *American Economic Review* 87: 342-362.
- Kilian, Lutz 2008. "The Economic Effects of Energy Price Shocks." *Journal of Economic Literature* 46(4): 871–909.

C. Fiscal shocks

- *Romer, Sections 11.1-11.3
- *Valerie Ramey and Matthew Shapiro, 1998. "Costly Capital Reallocation and the Effects of Government Spending," *Carnegie-Rochester Conference Series on Public Policy* 48, 145–194.
- *Emi Nakamura and Jón Steinsson, 2013. "Fiscal Stimulus in a Monetary Union: Evidence from U.S. Regions," *American Economic Review*, 104(3), 753-792, March 2014.

- Christina Romer and David Romer, 2010. "The Macroeconomic Effects of Tax Changes: Estimates Based on a New Measure of Fiscal Shocks," *American Economic Review* 100(3): 763-801.
- Valerie Ramey, 2011. "Can Government Purchases Stimulate the Economy?" *Journal of Economic Literature* 49(3): 673–685.
- Parker, Jonathan A. 2011. "On Measuring the Effects of Fiscal Policy in Recessions." *Journal of Economic Literature*, 49(3): 703–718.
- Olivier Blanchard and Roberto Perotti, 2002. "An empirical characterization of the dynamic effects of changes in government spending and taxes on output," *Quarterly Journal of Economics* 117 (4): 1329-1368.
- Marianne Baxter and Robert King, 1993. "Fiscal Policy in General Equilibrium." *American Economic Review* 83(3): 315-334.
- Christopher House and Matthew Shapiro, 2006. "Phased-in tax cuts and economic activity," *American Economic Review* 96(3): 1835-1849.