MACROECONOMICS II ECON 6140 (SECOND HALF) CORNELL UNIVERSITY SPRING 2025

Professor: Kristoffer Nimark

Class time and place: 2.55-4.10 pm Rockefeller Hall 104

Office hours: Thursdays 4.30-6pm Email Address: pkn8@cornell.edu Web site: www.kris-nimark.net

Overview

The course covers New Keynesian business cycle theory with applications to monetary policy. It also introduces students to some tools for applied macroeconomic research.

Administrative matters

Grades will be based on the final exam (60%) and 4 homework assignments ($4 \times 10\%$).

Final exam: Date TBD.

Lecture 1: Introduction and overview.

- What makes macro macro?
- Business cycles
- Course overview
- Linear difference equations

Lecture 2: A classical monetary model.

- The representative household
- Firms and production

Gali Ch. 2

Lecture 3-4: The basic New Keynesian model.

- Monopolistic competition
- CES demand systems
- Calvo pricing and the New Keynesian Phillips Curve
- Monetary non-neutrality

Gali Ch. 3

Lecture 5: Solving linear rational expectations models.

- Method of undetermined coefficients
- Iterative projections based methods
- Stable-unstable decoupling

Lecture notes.

Date: March 20, 2025.

Lecture 6: Monetary policy.

• Fluctuations, welfare, efficiency

Gali Ch. 4

Lecture 7: Policy trade-offs.

- Cost-push shocks
- Discretion vs commitment

Gali Ch. 5

Lecture 8: Sticky wages.

- Monetary policy design with sticky wages
- Simple rules

Gali Ch. 6

Lecture 9: Unemployment.

• Unemployment and monetary policy

Gali Ch. 7

Lecture 10: State space models and the Kalman filter.

- State space representation of linear difference equations
- The Kalman filter

Lecture notes on Kalman filter

Lecture 11: Calibration and Moment Matching.

- Choosing parameter for a model
- Calibration vs indirect inference

Articles on Canvas

Lecture 12: Likelihood based estimation.

- Numerical optimization
- Models and likelihood functions

Selected chapters of Hamilton.

References

- [1] Gali, Jordi, Monetary Policy, Inflation, and the Business Cycle, Princeton University Press 2015.
- [2] Hamilton, James D., 1994, Time Series Analysis, Princeton University Press.