Central Banks, Macroeconomic Policy and Financial Markets  
FNCE 240/740  
Fall 2021

This course will be co-taught by Professor Zvi Eckstein and Professor Joao F. Gomes. Professor Eckstein will teach most of Quarter 1 and Professor Gomes will teach mostly during Quarter 2.

Contact Information  
Professor Zvi Eckstein  
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Course Description

Macroeconomic events and policies play a crucial role in driving financial market performance over time. This is an advanced course in applied macroeconomics that discusses both how macroeconomic policy works today and how it impacts the broad economy and financial markets. It is assumed that students have a good knowledge of intermediate undergraduate macroeconomic analysis and at least a basic understanding of the key financial markets indicators.

The first half of the class focuses on understanding and predicting Central Banking (CB) decision making and how monetary policy is conducted today. We provide the methods and knowledge on how central banks think and implement policies to reach the goals of price and financial stability as well as support of growth and employment. The core of this section connects economic knowledge, legal frameworks and the goals and methods followed by central banks. We explain the rationale for the policy prescriptions implemented today mainly by the Federal Reserve Bank (Fed) in the US as well as by the European Central Bank (ECB), Bank of Israel (BOI) and some other major countries. We discuss the Covid-19 crisis and the events before and after the 2008 financial crisis. Students will simulate and forecast upcoming policy decisions based on current data and the latest theory.

The second half studies government policy more broadly and how financial markets process macroeconomic events and policy announcements. It discusses the key macroeconomic drivers of
bond and stock market valuations and how they respond to economic news and policy actions by central banks and governments. We will discuss the impact of recent developments and, in particular, the consequences of the aggressive policy interventions to the financial crisis and the Covid-19 induced recession. Students will estimate the impact key economic developments and assess their implications for bond and equity valuations.

Prerequisites:
This course assumes students have a solid knowledge of intermediate macroeconomics or similar, principles of finance, including a degree of comfort with financial valuations and basic regressions in Excel or other similar tool.

Meeting Information

Class Times
Tuesday and Thursday: 8:30-10:00 (Section 1) and 10:15-11:45 (Section 2)

Class Structure
Most classes will:
- **Start with a class discussion of the latest news** or data related to the class. Our main sources will be the *Financial Times* and *The Wall Street Journal*, as well as *The Economist* and *Bloomberg*. Readings will usually be shared on the day before class.
- **Include a short quiz (often based on questions from past exams)**. The Quiz aims to review the core concepts discussed during that class. Quizzes are on Canvas. They should be done individually using a laptop or mobile device.

Students are expected to attend class regularly and contribute actively to the discussions and answer Quizzes. If you cannot attend a class, please send an explanation ahead and we shall adjust grades by increasing the weight of Midterm.

Classroom Safety

We intend for this to be an in-person class, although our guest speakers will probably only be able to join remotely. Precise classroom safety rules will be announced at the beginning of the semester and will conform with latest guidance from Penn and the city of Philadelphia.

Requirements and grading

The final course grade will be calculated as follows
- **Team Assignments** (drop worst score): to be done by teams of 3-4 students (30%)
- **Active participation**: in class discussions and/or online discussion boards (20%)
- **Quizzes** (drop two lower scores): (30%)
- **Long Quiz December 7**: covers presentations by guest speakers (20%)

Deliverables Due Dates
Course Materials

Because this is an advanced class that discusses real-time events there is no suitable textbook. Most of our references provide supportive information but are not required to follow the class material. They include a few useful chapters or sections from some (text)books, as well as reports, lectures and several recently published articles on each of the topics. We provide all necessary readings and data for the assignments. Slides, readings and assignment materials can be found on Canvas.

We strongly recommend a subscription to major financial publication such as the Wall Street Journal or the Financial Times (free online to Penn students). In addition, Yardeni Research (https://www.yardeni.com) provides incredibly detailed content on financial markets and the macroeconomy. It is freely available and updated daily.

Main Background References:

- Andy A. Abel, Ben S. Bernanke and Dean Croushore, Macroeconomics (10th edition) Pearson. (ABC)

Schedule

1. Covid-19, the Great Financial Crisis and Central Banks Intervention (Aug 31)

Readings

Optional background:

- ABC, pp. 568-574.

2. Inflation and Interest: Foundations (Sep. 2)

Main Question: What are the optimal long run (target) inflation and nominal interest rates?

Readings

Priority:

Optional background:
• ABC, pp. 63-248; 248-252; 263-270; 276-278; 474-481

Optional additional:
• The Economist “The Covid-19 Pandemic is Forcing a Rethink in Macroeconomics”, Briefing, 7/25/2020

3. The Taylor Rule: How do Central Banks Conduct Monetary Policy? (Sep. 7 & 9)
Main Question: How is the short-term interest rate determined?

Readings
Priority:
• Ben S. Bernanke, “Monetary Policy and the Housing Bubble”, speech at the American Economic Association, 1/2010

Optional background:
• ABC, pp. 542-582

Optional additional:

DUE: Sep. 9 - Presentations and discussion of Assignment 1.
Was the Fed federal funds rate too low before 8/2007 and after 10/2008?

4. Bond Markets: Yield Curves, Credit Spreads and Impact of Macro Events. (Sep. 14 & 16)
Main question: How do bond markets respond to the macroeconomy and policy?

Readings
Priority:
• Luca Benzoni, Olena Chyruk and David Kelley, “Credit Risk, Spreads and Intervention. Why does the Yield-Curve Slope Predict Recessions?”, Federal Reserve Bank of Chicago, 2020

Optional background:
• Mishkin, chapter 6

Optional additional
• Nina Boyarchenko, Richard Crump, Anna Kovner, Or Shachar, and Peter Van Tassel, “The Primary and Secondary Market Corporate Credit Facilities”, NY Fed 2020

5. **Policy at the Zero Lower Bound for Interest Rates (Sep. 21 & 23)**

Main question: Is monetary policy effective at the zero lower bound or with negative interest rates?

**Readings**

Priority:
• Ben S. Bernanke, “At the Stamp Lecture”, London School of Economics, 1/13/2009; also Jackson Hole speech, 8/21/2009.
• Kenneth Rogoff, “The Case for a Deeply Negative Interest Rate”, Project Syndicate, 5/4/2020

Optional background:
• ABC, pp. 569-573, 620

Optional additional:

**DUE: Sep. 21: Presentations and discussion of Assignment 2**

Simulation and discussion of the FOMC decision of 9/22. The Fed monetary policy since March 2020 and what is expected for the future.

6. **Flexible Inflation Targeting Policy: Theory and Practice (Sep. 28 & 30)**

Main question: What is the theory and practice of modern monetary policy analysis?
Readings:
Priority:
- Class notes on DSGE model
Optional background:
- ABC, 160-167; 170-175; 339-342; 441-443; 490-497; 518-527
Optional additional:

7. **The Outlook for US Monetary Policy (Oct. 5)**
Main Question: What is the near term outlook for monetary policy in the US?
Guest Speaker: Loretta Mester (President, Federal Reserve Bank of Cleveland)
*NOTE: The presentation takes place only during the 10:15-11:45 session*

8. **The European Debt Crisis, ECB Monetary Policy and the Covid-19 Crisis (Oct. 7)**
Main Question: How does fiscal and monetary policy affect financial stability? Do we need “helicopter money”?
Readings
Priority:
Optional background:
- ABC, 604-627
Optional additional:

DUE: Oct. 7: Presentations and discussion of Assignment 3.
Simulation of the next ECB monetary policy decision. ECB policy under Mario Draghi and Christine Lagarde: does it follow a Taylor rule or only the goal of “price stability”? What is the impact of negative deposit rate and ECB QE?

Guest speaker: Professor Amir Yaron (Governor, Bank of Israel)
Main question: Should monetary policy include exchange rate intervention? How different is the BOI response to the Covid-19 crisis?

Note: The presentation takes place only during the 8:30-10:00 session

Reading Priority:
- Amir Yaron “Are we Again Taking Financial Stability for Granted? (Or: Do we Need Central Banks?)”, Speech at the Israel Economic Association Conference, Hebrew University of Jerusalem, 6/6/2020

10. Fiscal Policy Challenges: Stimulus, Growing Debt and Inflation. (Oct. 28 & Nov. 2)
Main question: What is the current fiscal policy stance in the US? What are the long run fiscal challenges?

Readings Priority:
- Lawrence Summers, “The Inflation Risk is Real”, blog, 5/13/2021

Optional background:
- ABC, section 15.3

Optional additional

11. Interest Rate Strategies (Nov. 4)
Guest lecture: Dr. Praveen Korapaty (Chief Interest Rates Strategist, Goldman Sachs)
Main question: What is the outlook for interest rates in the major economies?

Note: The presentation takes place only during the 10:15-11:45 session

12. Debt and Fiscal Crisis (Nov. 9)
Main question: What causes a fiscal crisis? What are the economic consequences?

DUE: Nov. 9: Presentations and discussion of Assignment 4.
How and when will the projected rise in Federal debt damage the U.S economy?

13. Equity Markets: Indicators, Performance and Impact of Macro News (Nov. 11 & 18)
Main Questions: How are the key macro variables and policies reflected in aggregate stock valuations? What drives expected returns on equities?
Readings

Priority:

Optional background:
- Mishkin, Ch. 7

Optional additional

14. The US Macro Outlook (Nov. 16)
Guest Lecture: Dr. Mark Zandi (Chief Economist, Moody Analytics)
Main question: What is the near term outlook for the US economy?
NOTE: The presentation takes place only during the 10:15-11:45 session

15. The Outlook for US Capital Markets (Nov. 30)
Guest Lecture: Dr. Edward Yardeni (President, Yardeni Research)
Main question: What is the near term outlook for the US capital markets?
NOTE: The presentation takes place only during the TBD session

16. Global Investment Strategies (Dec. 2)
Guest Lecture: Arp Ercil (CEO, Asia Research and Capital Management)
Main question: What is the outlook for the global economy and key financial markets?
NOTE: The presentation takes place only during the TBD session

17. Summary and Conclusion (Dec. 7 & 9)
Reflection on the main themes of the course.

DUE: Dec. 7 Quiz on Guest Speaker Presentations.

DUE: Dec. 9 Presentation and discussion of Assignment 5.
Is the US stock market overvalued?
# Ethics Matrix

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<thead>
<tr>
<th>FNCE 240/740 Central Banks, Macroeconomic Policy and Financial Markets</th>
<th>Materials</th>
<th>People</th>
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<tbody>
<tr>
<td>Calculator</td>
<td>Laptop / other electronics</td>
<td>Summary sheet</td>
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<td>Quizzes</td>
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<td>Midterm Preparation</td>
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A = Allowed material  
Shaded Cell = Not allowed  
W = Allowed to work together  
D = Discussion of general concepts and procedures is allowed but no sharing of specific answers.  
Shaded Cell = Not allowed

The information above covers many common situations but probably not every circumstance. Remember: the Wharton Code of Ethics that you accepted requires, among other things, that you represent yourself and your work honestly, do not try to gain unfair advantage over other students, follow the instructor’s guidelines and respect confidentiality of your work and that of others. Should you have questions, please contact your professor.