Introduction to Financial and Money Markets

Economics 301: Money and Banking

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Goals Reading

Goals and Learning Outcomes

• Goals:

- Get an overview of money and financial markets.
- Understand why it is important to study these markets.

• Learning Outcomes:

 Just touch on LO1: Understand and appreciate the importance of financial markets for the overall functioning of the economy.

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Goals Reading

Reading

• Read Hubbard and O'Brien, Chapter 1.

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Types of Markets Financial Markets vs. Intermediaries Bond Markets and Interest Rates Stock Markets Foreign Exchange Markets

- Financial Markets: markets in which funds are transferred from those who have an excess of available funds (people or institutions that save) to those who have a shortage of funds (borrowers).
 - **Banking and financial institutions:** These are what make financial markets work. These businesses make a profit by moving funds around the economy.
- Monetary Markets: market for money.
 - Money: anything that can be used as a means of payment.
 - Typically, if something is money, it earns little to no interest.
 - Monetary Policy: actions by a country's central bank to control the money supply.
- Asset: Anything of value that can be owned. That is anything that can be converted for a means of payment
- Security: issued by an institution; *tradable* claim on the institutions assets or future income.

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Financial Markets vs. Intermediaries

• Financial intermediary: A financial firm such as a bank which borrows money from savers and lends money to

- borrowers.
 - Most common source of financing for individuals and small businesses.
- **Financial Markets:** A market for businesses to obtain funds *directly from savers*.
 - Examples of financing include selling stocks and bonds.
 - Common for large (nationally or internationally recognized) businesses that can credibly communicate the profitability of the firm.
 - Primary markets: markets where stocks, bonds, or other securities are sold for the first time.
 - Secondary markets: markets where stocks, bonds, and other securities are traded.

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Bond Markets

- **Bond:** Debt security that promises to make payments periodically for a specified period of time.
- Interest rate: cost of issuing a bond, or income received from owning a bond. Typically expressed as a percentage of the bond price.
- Lots of different interest rates:
 - Consumer interest rates: mortgage rates, car loan rates, credit card rates, savings account rates, certificates of deposit rates etc.
 - Government bond rates: Treasury bill rate (Federal government debt), state and local government bonds.
 - Corporate bond rates
 - Federal reserve rates: discount rate, federal funds rate.

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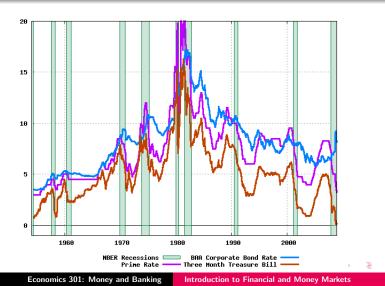
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Interest Rates

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Importance of Interest Rates: Text Questions!

- Interest rates affect the macroeconomy through producers.
- Interest rates affect the macroeconomy through consumers.

Types of Markets Financial Markets vs. Intermediaries Bond Markets and Interest Rates **Stock Markets** Foreign Exchange Markets

Stock Markets

• **Common Stock:** represents a share in ownership of a corporation.

- Security that is a claim on the earnings and assets of the corporation.
- Dividends: distribution of the corporations earnings to the shareholders.
- Capital gain (loss): money earned (lost) by selling a stock for more (less) than you originally purchased it for.
- Why should stock prices change?

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Profits of Firms

Types of Markets Financial Markets vs. Intermediaries Bond Markets and Interest Rates Stock Markets Foreign Exchange Markets

What do you expect to happen to profits of a firm if...

- you expect the Federal Reserve is going to soon raise interest rates?
- you expect new government mandated restrictions on the types of lending financial institutions can engage in?
- you expect consumers' incomes to increase in the near future?
- you expect the value of the dollar to decrease against the Euro and the firm sells a large amount of its output to European consumers?

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- Foreign Exchange Market: market where funds from one country are exchanged for funds from another country.
- Need another country's currency in order to,
 - make a financial investment in that country.
 - purchase final goods from that country.
 - purchase intermediate goods from that country.
- In order for an American to convert dollars to Euros, she/he must be able to find someone who wants to convert Euros to dollars.

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Types of Markets Financial Markets vs. Intermediaries Bond Markets and Interest Rates Stock Markets Foreign Exchange Markets

- Price of one country's currency in terms of another country's currency.
- Many different currencies: dollar/euro, dollar/yen, dollar/pound, etc...
- Two ways to express exchange rate:
 - Exchange rate on 1/25/10: 1.4139 \$/€.
 - Exchange rate on 1/25/10: 0.7073 €/\$.
- If the \$/€ exchange rate rises, is this a depreciation or appreciation of US Dollar? depreciation or appreciation of Euro?
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Macroeconomy Money Growth Inflation

Monetary Markets

- The market for money is very closely linked to economic variables that influence the health of the economy.
- **Business Cycles:** upward and downward movement over time of measures of the health of the economy.
- Measures of health of macroeconomy:
 - Aggregate output, aka aggregate production, aka real gross domestic product: measure of the total amount of production of goods and services in an economy.
 - Unemployment rate: percentage of the labor force that is not employed.
 - Recession: period of declining macroeconomic activity.

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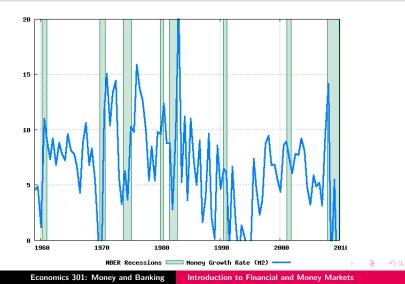
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Macroeconomy Money Growth Inflation

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Macroeconomy Money Growth Inflation

- **Price level:** measure of the overall level of prices in the economy.
 - Consumer Price Index: price of a "basket of goods", scaled to equal 100 in base year.
 - GDP Deflator: ratio of nominal GDP to real GDP, scaled to equal 100 in base year.
- Inflation: growth rate of price level.
- In long run, money growth rate tends to equal inflation rate.
- In short run though, there can be big fluctuations.

Macroeconomy Money Growth Inflation

Price Level and Inflation

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Inflation and Money Growth

20 15 10 5 Й 1970 1960 1980 1990 2000 201(NBER Recessions CPI Inflation Rate ---- Money Growth Rate (M2)

Economics 301: Money and Banking

Introduction to Financial and Money Markets

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Origins of a Financial Crisis

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- Housing market bubble: ever-rising house prices led banks/borrowers to expect:
 - borrowers to be able to pay off or refinance adjustable rate mortgages.
 - even sub-prime borrowers could sell their house and avoid default.
 - valuable collateral in event of a default.
- Securitization of mortgages.
 - MBS: mortgage-backed securities
 - CDOs: Collateralized debt obligations
 - These are good! They pool risk.
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Origins of a Financial Crisis

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Why Study Financial and Monetary Markets?

• Overall interest: Health of the macroeconomy.

- Poorly operating financial markets inhibit productive possibilities.
- Monetary market and financial market, related primarily though interest rates.
- Monetary policy can influence these markets, and may change outcomes production, unemployment, and inflation.

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