MONEY AND BANKING INTRODUCTION: FINANCIAL SYSTEM

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OUTLINE

- **1** CONTACT INFORMATION
- 2 CONNECTIONS WITH MACROECONOMICS
- **3** Course Policy
 - Attendance
 - Grade Policy
 - Recommended Textbooks
- 4 What is Financial System?
- 5 THE IMPORTANCE OF FINANCIAL SYSTEM
- **6** Course Structure
- 7 Preview

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- Cell No.: 137-3228-3624. Please don't call me after 21:00.

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- How do you define *economics* in your own words?
- Rational agents optimize their decisions given resource constraints.
- In *Macroeconomics*, we study the optimization of households, producers, and government decision jointly.

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- Any student that is absent from the lectures for more than 6 times is not allowed to take the final exam, or make-up exam in the next semester.

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- Instructors would ask students to bring the reading notes to the classes. Anyone's reading notes that fails to submit as required is graded zero.

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- Any student is not allowed to submit the assignments after the deadline. NO EXCUSES.

RECOMMENDED TEXTBOOKS

■ The course is largely based on Frederic S. Mishkin's *The Economics of Money, Banking, and Financial Markets* (9th edition).

 $^{^1} The link is https://www.amazon.cn/dp/B00DIN7CDO/ref=sr_1_7?s=books&ie=UTF8&qid=1528788252&sr=1-7&keywords=The+Economics+of+Money%2C+Banking%2C+and+Financial+Markets$

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- Strongly suggest you to have a textbook for two reasons. First, you need it for reading notes (it is 10% of your total score). Second, you need it for final review.

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- Financial infrastructure is the set of institutions that enable effective operation of financial intermediaries.
- It includes such elements as payment systems, credit information bureaus and collateral registries. It also includes legal and regulatory framework for financial sector operations.

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- Major investment banks around the world include Barclays,
 Bank of America Merrill Lynch, Goldman Sachs, Deutsche Bank,
 Morgan Stanley, UBS, Credit Suisse, and Citibank.

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- The value of derivatives depends on the underlying assets (e.g. stocks, bonds, commodities).

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- The world most influential central banks are the Federal Reserve (U.S.A), the People's Bank of China, the European Central Bank, and Bank of Japan.

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- Securities Exchange Committee, on the other hand, oversees securities markets.
- It puzzles many that why financial system is probably the most regulated sector in the economy. To answer this question, we need to investigate the importance of financial system.

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- Suppose you want to start up your own business, say, a computer store near campus. The rent, electricity, water bills, and staff wage are going to cost you every 30,000 RMB per month. It is 360,000 RMB per year; yet you only have 10,000 RMB to invest. How to fill the gap of 350,000 RMB for the first year?

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 - debt investors fixed interest rates periodically and lump-sum repayment at maturity date (either bank loans or bonds).

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- However, in either case, you will confront with financial intermediaries.
- Direct finance investment banks which underwrite your equity or bonds to investors.
- Indirect finance banks which grants you business loans.

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- When you in an attempt to raise funds by your own, you will acknowledge the time and energy that you need to invest in this financing process.

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- For example, Lee prefers a fixed interest rate of 6% per year; Richy might like 5,000 RMB to become an owner, although you don't think he knows anything about computer stuff.
- By comparison, we find out that raising funds through financial intermediaries is time-saving. What more does financial system do for us?

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- Besides, you don't need to line up in banks to buy mutual funds or fund wire.

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- It is very hard to you to raise funds from one person or entity even when it is the most economical way.
- Banks, in this case, pool funds from various entities (e.g., households and corporations), and then to distribute to units which are in need.

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- e.g. insurance companies and pension funds would give investors contingency payment and retirement annuities.

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- If you wanted to sell it quickly, you would choose investment banks, for instance.

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- Why your prospective investors would ask you so many question before deciding to invest in you?
- Because you know the business that you intend to engage than most of them. They worry that your "unobservable" actions before and after the transaction would jeopardize their investment.
- It is a typical problem in economics, known as asymmetric information.

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- For more readings, please consult Bodie, Z, and Merton, R.C. (1995). *A Conceptual Framework for Analyzing the Financial System*, Chapter 1 to 8, Harvard Business School Press.

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Course Structure

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- Investment banks provide indirect finance channel by acting as intermediaries between issuers and investors. On the asset side, investment banks hold bonds and stocks corporations issued, for example. On the liability side, investment banks produce monetary assets (e.g., commercial papers).

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- The amount of monetary assets and non-monetary assets (e.g., stocks and bonds) are affected by the central bank. On the asset side, the central bank holds government securities; on the liability side, it produces base money.

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- Decisions of the central bank are implemented by monetary policy tools, and generate influence on the economy through monetary transmission channels.

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- In Understanding Interest Rates, we will introduce a plain vanilla bond, interest rate measurement - yield to maturity, techniques of present value, and calculation of rate of return.