In this chapter, look for the answers to these questions:

- What kinds of questions does economics address?
- What are the principles of how people make decisions?
- What are the principles of how people interact?
- What are the principles of how the economy as a whole works?

### What Economics Is All About

- **Scarcity**: the limited nature of society’s resources
- **Economics**: the study of how society manages its scarce resources, e.g.
  - how people decide what to buy, how much to work, save, and spend
  - how firms decide how much to produce, how many workers to hire
  - how society decides how to divide its resources between national defense, consumer goods, protecting the environment, and other needs

### Principle #1: People Face Tradeoffs

All decisions involve tradeoffs. Examples:

- Going to a party the night before your midterm leaves less time for studying.
- Having more money to buy stuff requires working longer hours, which leaves less time for leisure.
- Protecting the environment requires resources that could otherwise be used to produce consumer goods.
Making decisions requires comparing the costs and benefits of alternative choices.

- The **opportunity cost** of any item is whatever must be given up to obtain it.
- It is the relevant cost for decision making.

**Examples:**
- Going to college for a year is not just the tuition, books, and fees, but also the foregone wages.
- Seeing a movie is not just the price of the ticket, but the value of the time you spend in the theater.

**Rational people**
- Systematically and purposefully do the best they can to achieve their objectives.
- Make decisions by evaluating costs and benefits of **marginal changes** – incremental adjustments to an existing plan.

**Examples:**
- When a student considers whether to go to college for an additional year, he compares the fees & foregone wages to the extra income he could earn with the extra year of education.
- When a manager considers whether to increase output, she compares the cost of the needed labor and materials to the extra revenue.

**Incentive:** something that induces a person to act, *i.e.* the prospect of a reward or punishment.

Rational people respond to incentives.

- When gas prices rise, consumers buy more hybrid cars and fewer gas guzzling SUVs.
- When cigarette taxes increase, teen smoking falls.

**Active Learning 1**
**Applying the principles**

You are selling your old Asus laptop. You have already spent $10,000 on repairs.

At the last minute, the hard drive dies. You can pay $6,000 to fix it, or sell the laptop "as is."

In each of the following scenarios, should you have the hard drive repaired? Explain.

A. eBay value is $25,000 if hard drive works, $17,000 if it doesn’t
B. eBay value is $20,000 if hard drive works, $15,000 if it doesn’t
Cost of fixing hard drive = $6,000

A. eBay value is $25,000 if hard drive works, $17,000 if it doesn't  
   Benefit of fixing the hard drive = $8,000  
   ($25,000 − 17,000).  
   It's worthwhile to have the hard drive fixed.

B. eBay value is $20,000 if hard drive works, $15,000 if it doesn't  
   Benefit of fixing the hard drive is only $5,000.  
   Paying $6,000 to fix hard drive is not worthwhile.

Observations:
- The $10,000 you previously spent on repairs is irrelevant. What matters is the cost and benefit of the marginal repair (the hard drive).
- The change in incentives from scenario A to scenario B caused your decision to change.

- The principles of HOW PEOPLE INTERACT

Principle #5: Trade Can Make Everyone Better Off

- Rather than being self-sufficient, people can specialize in producing one good or service and exchange it for other goods.
- Countries also benefit from trade & specialization:
  - Get a better price abroad for goods they produce
  - Buy other goods more cheaply from abroad than could be produced at home

Principle #6: Markets Are Usually A Good Way to Organize Economic Activity

- Market: a group of buyers and sellers (need not be in a single location)
- “Organize economic activity” means determining
  - what goods to produce
  - how to produce them
  - how much of each to produce
  - who gets them

- A market economy allocates resources through the decentralized decisions of many households and firms as they interact in markets.
- Famous insight by Adam Smith in *The Wealth of Nations* (1776): Each of these households and firms acts as if "led by an invisible hand" to promote general economic well-being.
The invisible hand works through the price system:
- The interaction of buyers and sellers determines prices.
- Each price reflects the good’s value to buyers and the cost of producing the good.
- Prices guide self-interested households and firms to make decisions that, in many cases, maximize society’s economic well-being.

Important role for govt: enforce property rights (with police, courts)
- People are less inclined to work, produce, invest, or purchase if large risk of their property being stolen.

Market failure: when the market fails to allocate society’s resources efficiently
- Causes:
  - Externalities, when the production or consumption of a good affects bystanders (e.g. pollution)
  - Market power, a single buyer or seller has substantial influence on market price (e.g. monopoly)
- In such cases, public policy may promote efficiency.

Govt may alter market outcome to promote equality
- If the market’s distribution of economic well-being is not desirable, tax or welfare policies can change how the economic “pie” is divided.

What Economics is REALLY About?
- Traditionally: Economics is the study of how society produces and distributes goods to satisfy the wants and needs of their members.
- New school: Economics is a study of institutions and human behavior (reactions to institutions)
  - (Classical) market mechanism is just one example
- Other mechanisms: Auctions, match-making
- Other institutions: governments, congress, national health insurance, families, social norms
The principles of HOW THE ECONOMY AS A WHOLE WORKS

HOW THE ECONOMY AS A WHOLE WORKS

Principle #8: A country’s standard of living depends on its ability to produce goods & services.

- Huge variation in living standards across countries and over time:
  - Average income in rich countries is more than ten times average income in poor countries.
  - The U.S. standard of living today is about eight times larger than 100 years ago.
  - What about Taiwan?

Principle #9: Prices rise when the government prints too much money.

- Inflation: increases in the general level of prices.
- In the long run, inflation is almost always caused by excessive growth in the quantity of money, which causes the value of money to fall.
- The faster the govt creates money, the greater the inflation rate.

HOW THE ECONOMY AS A WHOLE WORKS

Principle #10: Society faces a short-run tradeoff between inflation and unemployment

- In the short-run (1 – 2 years), many economic policies push inflation and unemployment in opposite directions.
- Other factors can make this tradeoff more or less favorable, but the tradeoff is always present.

These are Macroeconomics Principles (for the Spring semester, not for now)

Some are still controversial and under debate

Blah blah blah…

See Yoram’s “Translation” of the ten principles
FYI: How to Read Your Textbook

1. **Read before class.**
   You'll get more out of class.

2. **Summarize, don't highlight.**
   Highlighting is a passive activity that won't improve your comprehension or retention. Instead, summarize each section in your own words. Then, compare your summary to the one at the end of the chapter.

5. **Go online.**
   The book comes with excellent web resources, including practice quizzes, tools to strengthen your graphing skills, helpful video clips, and other resources to help you learn the textbook material more easily and effectively. Visit:
   - http://academic.cengage.com/economics/mankiw

6. **Study in groups.**
   Get together with a few classmates to review each chapter, quiz each other, and help each other understand the material.

FYI: How to Read Your Textbook

3. **Test yourself.**
   Try the "Quick Quiz" that follows each section before moving on to the next section. Write your answers down, compare them to the answers in the back of the book. If your answers are incorrect, review the section before moving on.

4. **Practice, practice, practice.**
   Work through the end-of-chapter review questions and problems. They are often good practice for the exams. And the more you use your new knowledge, the more solid it will become.

7. **Teach someone.**
   The best way to learn something is to teach it to someone else, such as a study partner or friend.

8. **Don't skip the real world examples.**
   Read the Case Studies and "In The News" boxes in each chapter. They will help you see how the new terms, concepts, models, and graphs apply to the real world. As you read the newspaper or watch the evening news, see if you can find the connections with what you're learning in the textbook.

CHAPTER SUMMARY

The principles of decision making are:
- People face tradeoffs.
- The cost of any action is measured in terms of foregone opportunities.
- Rational people make decisions by comparing marginal costs and marginal benefits.
- People respond to incentives.

The principles of interactions among people are:
- Trade can be mutually beneficial.
- Markets are usually a good way of coordinating trade.
- Govt can potentially improve market outcomes if there is a market failure or if the market outcome is inequitable.
**CHAPTER SUMMARY**

The principles of the economy as a whole are:
- Productivity is the ultimate source of living standards.
- Money growth is the ultimate source of inflation.
- Society faces a short-run tradeoff between inflation and unemployment.

**What Economics is About?**
- Economics is a study of institutions and human behavior (reactions to institutions)
  - 「上有政策，下有對策」
  - (Classical) market mechanism is one example
- Other mechanisms: auctions, match-making
- Other institutions:
  - Governments, congress,
  - Welfare systems, national health insurance,
  - Families, social norms

**Chapter 1: Ten Principles**
- Seven in Micro-economics
- Three in Macro-economics: Blah blah blah
- Homework:
  - Watch the “Ten Principles of Economics: A Translation” YouTube video and read its transcript online
  - Mankiw p.18-19, Problem 3, 4, 7, 8, 9, 11, 13

**Join the LUPI Game**
- Lowest Unique Positive Integer Game
  - Or, “Largest” Unique Positive Integer Game
- Please each chooses an positive integer from 1 through 100
- The person that chose the lowest (largest) number that no one else did wins
- You earn 1 bonus point (or the right to add the class (加選) if you win, and 0 otherwise