

ECO 1110 Current Economic Problems

Ten Principles of Economics

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Questions we want to address

- 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?

Resources are scarce

- Scarcity: the limited nature of society's resources
 - Society has limited resources
 - Cannot produce all the goods and services people wish to have
- Economics: The study of how society manages its scarce resources
 - 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 Trade-offs

- To get something that we like, we have to give up something else that we also like
 - Going to a party the night before an exam
 - Less time for studying
 - Having more money to buy stuff
 - Working longer hours, less time for leisure
 - Protecting the environment
 - Resources could be used to produce consumer goods

Society also faces trade-offs

- The more it spends on national defense (guns) to protect its shores, the less it can spend on consumer goods (butter) to raise the standard of living at home
- **Pollution regulations:** cleaner environment and improved health, but it might come at the cost of reducing the incomes of the firms' owners, workers, and customers
- **Efficiency:** society gets the most from its scarce resources
- **Equality:** prosperity is distributed uniformly among society's members
- What is the trade-off here?
 - To achieve greater equality, could redistribute income from wealthy to poor, but this reduces incentive to work and produce, shrinks the size of economic "pie"

Principle 2: The Cost of Something Is What You Give Up to Get It

- Making decisions
 - Compare costs with benefits of alternatives
 - Need to include opportunity costs
- Opportunity cost
 - Whatever must be given up to obtain some item
- The opportunity cost of
 - Going to college for a year
 - Tuition, books, and fees PLUS **foregone wages**
 - Going to the movies
 - The price of the movie ticket PLUS **the value of the time you spend in the theater**

Principle 3: Rational People Think at the Margin

- Rational people
 - Systematically and purposefully do the best they can to achieve their objectives given the available opportunities
 - Make decisions by evaluating costs and benefits of marginal changes.
i.e. Small incremental adjustments to a plan of action

Examples:

- Cell phone users with unlimited minutes (the minutes are free at the margin) are often prone to making long/frivolous calls
 - Marginal benefit of the call > 0
- A manager considers whether to increase output
 - Compares the cost of the needed labor and materials to the extra revenue

Principle 4: People Respond to Incentives

- Incentive
 - Something that induces a person to act
- Examples
 - When gas prices rise, consumers buy more hybrid cars and fewer gas guzzling SUVs
 - When cigarette taxes increase, teen smoking falls

Let us apply these principles

You are selling your 2007 Mustang. You have already spent \$1,000 on repairs. At the last minute, the transmission dies. You can pay \$900 to have it repaired or sell the car “as is.”

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

- Blue book value (what you could get for the car) is \$7,500 if transmission works, \$6,200 if it does not.
- Blue book value is \$6,300 if transmission works, \$5,500 if it does not.

Let us apply these principles

Cost of fixing the transmission = \$900

A. Blue book value is \$7,500 if transmission works, \$6,200 if it does not

Benefit of fixing transmission = \$1,300 ($= 7500 - 6200$)

- Get the transmission fixed

B. Blue book value is \$6,300 if transmission works, \$5,500 if it does not

Benefit of fixing the transmission = \$800 ($= 6300 - 5500$)

- Do not pay \$900 to fix it

Principle 5: Trade Can Make Everyone Better Off

People benefit from trade

- People can buy a greater variety of goods and services at lower cost

Countries benefit from trade and 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

What is a Market?

- A group of buyers and sellers (need not be in a single location)

“Organize economic activity” means determining

- What goods and services to produce
- How much of each to produce
- Who produced and consumed these

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

A market economy allocates resources

- Decentralized decisions of many firms and households – 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

Here is Milton Friedman introduces these concepts using a very famous, simple and effective story.

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

Prices - Determined by interaction of buyers and sellers

- Reflect the good's value to buyers
- Reflect the cost of producing the good

Invisible hand

- Prices guide self-interested households and firms to make decisions that maximize society's economic well-being

Principle 7: Governments Can Sometimes Improve Market Outcomes

Government - enforce property rights

- Enforce rules and maintain institutions that are key to a market economy
 - People are less inclined to work, produce, invest, or purchase if large risk of their property being stolen

Principle 7: Governments Can Sometimes Improve Market Outcomes

Government can promote efficiency

- Avoid market failures: market left on its own fails to allocate resources efficiently
- Externality – source of market failure
 - Production or consumption of a good affects bystanders (e.g. pollution)
- Market power – source of market failure
 - A single buyer or seller has substantial influence on market price (e.g. monopoly, oligopoly)

Principle 7: Governments Can Sometimes Improve Market Outcomes

Government - promote equality

- Avoid disparities in economic well-being
- Use tax or welfare policies to change how the economic “pie” is divided

Discussion Questions

In each of the following situations, what is the government's role?

Does the government's intervention improve the outcome?

- Public schools for K-12
- Workplace safety regulations
- Public highways
- Patent laws, which allow drug companies to charge high prices for life-saving drugs

Principle 8: Country's Standard of Living Depends on Its Ability to Produce Goods and 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
- In 2017, data from IMF suggest that per capita income (in PPP terms) in the US was around \$58000, in India it was around \$6500, whereas in Zimbabwe it was around \$2300.

Principle 8: Country's Standard of Living Depends on Its Ability to Produce Goods and Services

Productivity: most important determinant of living standards

- Quantity of goods and services produced from each unit of labor input
- Depends on the equipment, skills, and technology available to workers
- Other factors (e.g., labor unions, competition from abroad) have far less impact on living standards

Principle 9: Prices Rise When the Government Prints Too Much Money

Inflation

- An increase in the overall level of prices in the economy

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 government creates money, the greater the inflation rate

Principle 10: Society Faces a Short-run Trade-off between Inflation and Unemployment

Short-run trade-off between unemployment and inflation

- Over a period of a year or two, many economic policies push inflation and unemployment in opposite directions
- Other factors can make this trade-off more or less favorable, but the trade-off is always present

What we learned so far

Fundamental lessons about individual decision making

- People face trade-offs among alternative goals
- The cost of any action is measured in terms of forgone opportunities
- Rational people make decisions by comparing marginal costs and marginal benefits
- People change their behavior in response to the incentives they face

What we learned so far

Fundamental lessons about interactions among people

- Trade and interdependence can be mutually beneficial
- Markets are usually a good way of coordinating economic activity among people
- The government can potentially improve market outcomes by remedying a market failure or by promoting greater economic equality

What we learned so far

Fundamental lessons about the economy as a whole

- Productivity is the ultimate source of living standards
- Growth in the quantity of money is the ultimate source of inflation
- Society faces a short-run trade-off between inflation and unemployment