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Basic Economic Concepts

What is Economics?

- Economics = the "science" of scarcity
 - **Scarcity** = the premise that resource availability is finite
 - Economic "actors" make decisions on how to allocate resources
 - * Economics is also called the science of **choices**

A Note About This Class

- This class is about Macroeconomics
 - **Macroeconomics** = an aspect of economics concerned with the higher-level details of how markets operate
 - * Especially how governments can affect market trends
- Economics(textbook definition) = a social science that deals with how to efficiently allocate scarce resources such that the "actor" in question attains maximum satisfaction
 - Flawed premise?

Micro vs Macro

- Microeconomics = an aspect of economics concerned with lower-level details of smaller economic units
 - Examples
 - * How do specific markets operate?
 - * How do monopolies affect profit?
- Macroeconomics = an aspect of economics concerned with higher-level details of the entire economy
 - Examples
 - * How do we best model economic growth?
 - * How can international trade affect domestic industries?
 - * How can government spending influence the market?

How is Economics Used?

- In economics, the chasm between practical affect and theoretical affect is relatively large
 - Sometimes, economic theories do not have the intended consequences
 - Theoretical Economics = the use of economic methods of analysis to develop a coherent model of an aspect of the economy
 - Policy economics = an economic model in which theories are applied and modified to best seek certain economic outcomes
- Positive Statement = a matter-of-fact statement of what reality consists of
 - Ignores morality and ethics and expectation
- Normative Statements = an assessment of perceived societal ills and how to best address them
 - Less based in practicality-more theoretical

Five Economic Assumptions

- 1. People's desires are unlimited, and commodities are scarce
- 2. Because of scarcity, choices must be made
 - In addition, each choice had trade-offs due to opportunity cost
- 3. Actors make decisions to maximize their satisfaction
 - Everyone is fundamentally self-interested
- 4. Decisions are made by comparing **marginal costs** and **marginal benefits** of each prospective option
- 5. Economic situations can be illuminated via simiplified models and graphs

What are "Marginal" costs and benefits

- Marginal = a term that describes "additional"
 - Think "margin"
- Marginal Analysis = a methodology that relies on comparing value that stands to be created or destroyed as a result of certain actions
 - Think of cost-benefit analysis
- Premise: people will continue to do something until the marginal costs are greater than the marginal benefits

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Practice Choice

You want to visit your friend for a week. You will return Sunday night.

You work every weekday earning \$100 per day

There are three flights available - Thursday night flight(\$275) - Friday Early Morning flight(\$300) - Friday night flight(\$325)

Trade-offs vs Opportunity Cost

- Trade-offs = all the choices that we don't make
 - All choices have trade-offs, by definition
 - We no longer stand to accrue the value of any of the choices we do not make
- Opportunity cost = the most valuable of all potential trade-offs
 - Kind of a placeholder for the largest sum of value you lose out on by going with the best choice
 - Possible to be used in the plural: opportunity costs
 - * The most valuable subset of size n of the set of tradeoffs

Some Economic Terminology

- Utility = satisfaction
 - Very hedonist definition of utility
 - Philosophers might disagree with that
- Marginal = additional
 - A term that describes values or costs that accrue as a result of making a choice
- Allocate = distribute
 - What marxist nonsense

Price vs Cost

- Price = the value that consumers dispense of to obtain a product
 - Price is set by the **producer**
- $\mathbf{Cost} = \mathbf{the}$ value that $\mathbf{producers}$ dispense of to create or refine a product

- Cost is set by the market
- **Investment** = the process by which producers dispense of value to increase production or efficiency
 - Consumer Goods = a product created for providing utility to the consumer
 - Capital Goods = the factors of production
 - * The utility that **capital goods** provide is used to produce a **consumer good** that is of utility to the **consumer**

Four Factors of Production

- 1. Land = a catchall term for capital goods that do not originate from labor
 - Examples
 - Physical land
 - Drinkable water
 - Coal
 - Oil
- 2. Labor = the effort exerted to transform existing consumer goods into capital goods
 - Examples
 - Slave labor
 - Wage workers
- 3. Capital
 - Physical Capital = capital goods that are used to generate consumer goods
 - Human Capital = skills gained through practice
- 4. **Entrepeneurship** = individuals with the ideas and skill to create goods and services that are of value to the consumer
 - Role of Entrepeneurship
 - Takes initiative
 - Innovation
 - Assumes the risk of business ventures
 - Incentive is sweet, sweet **profit**
 - Profit = Revenue Costs
 - * **Revenue** = the sum of value obtained by selling the goods produced

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Scarcity

- In order to manage resources requires government
 - Gasp... IT'S SOCIALISM
 - * Nah more like social democracy
- How are resources allocated differently under capitalism and communism?

The Three Economic Questions

- 1. What goods and services should we produce?
- 2. How should these goods and services be produced?
- 3. Who consumes the goods and services produced?

Political Ideology and the Three Questions

- The answers to *these* questions determines what **economic system** the society operates by
 - Economic System = the methods involved in how production and consumption take place
- Three economic systems
 - 1. Centrally-planned economy
 - Also called a "Command" economy
 - 2. Free market economy
 - 3. Mixed economy
 - What the US and most liberal democracies are

Centrally Planned Economies

- Characteristics
 - A government entity owns all the resources
 - A government entity answers the three questions
- Why do centrally planned economies face problems of poor-quality goods, shortages, and unhappy citizens?
 - Imperialism
 - Government bureaucracy
 - Apparently no incentive to work hard
 - \ast Classic. Just classic.

Free Market Economies

- Laissez Faire = "let it be"
 - Economic principle that the market is self-regulating and government regulation is just inefficient
- **Private property rights** = the legal and moral right to dictate how certain resources that are "owned" can be used and distributed
 - Private property is key
- **Profit-motive** = people entrepreneurs are motivated to create quality products because of **profit**
- Invisible Hand of the Market = pressures exerted on producers because of competition and self-interest
 - Free-market enthusiasts believe those pressures make the market efficient and moral

Mixed Economies

- \bullet somewhat of a mix between centrally planned economies and free-market economies
- The system that most modern liberal democracies are
 - Examples
 - * United States
 - * United Kingdom
 - * Canada
 - * France
 - * etc

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Production Possibilities Frontier(PPF)

- Also called the **production possibilities curve(PPC)**
- A model of how resources can be allocated to produce commodities
 - Useful for demonstrating scarcity, trade-offs, opportunity cost, and efficiency
- Four assumptions

- 1. There are only two commodities can be produced
- 2. Theoretical 0% unemployment rate
 - Perfect efficiency
- 3. We have a finite, fixed amount of resources
 - Ceteris Paribus = fixed resources
- 4. We have a stagnant amount of technology
 - If technology were changing when we were producing our PPF, then our graft would be shifting constantly

Example of PPF

• INSERT GRAPH 1-1 here

Economics Based on the PPF

- Each point is a *possible* production scheme
 - If you chose any one point, your **trade-offs** are all the other points
- Efficiency = the line represents perfect efficiency of resource utilization
 - If your production is plotted below the curve, there is present some source of inefficiency
 - * Unemployment, etc
 - If your production is plotted above the curve, then you are high
 - * It is by definition more than perfectly efficient, which isn't possible
- Opportunity $\cos t$ is represented by the slope of the curve at any given point
 - Constant opportunity cost = a situation wherein the ppf is a straight line
 - Law of Increasing Opportunity Cost = a theorem that stipulates
 that in most ppf curves, the opportunity cost(slope of the line)
 increases in magnitude
 - * Think of the bowed curve; the "negative-ness" of the slope constantly increases
 - * Resources do not linearly transfer between the requisites for producing two commodities
 - · What if the resources are *currency*?
 - · Commodity A costs some amount x per unit
 - · Commodity B costs some amount y per unit
 - . The linear rate of exchange between A and B should just be the ratio $\frac{x}{y}$

How Can the PPF Shift?

- 1. Change in the quantity of resources or the efficiency by which we can use existing resources
- 2. Change technology—extract resources more efficiently, produce more efficiently
- 3. Trade
 - If two countries have different optimal points, they can trade to make each other better off
 - Trade balance is typically in favor of those who produce capital goods

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Types of Efficiency

- **Productive efficiency** = the extent to which the productive capacity of a society is being fully utilized
 - All points along the **ppf** are equally *productively efficient*
- **Alocative efficiency** = the extent to which the permutation of production possibilities aligns with what the society at large desires
 - If a point isn't along the **ppf**, then it is not efficient in the productive or allocative capacity

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Trade

Why Do People Trade?

- In general, **people** trade so that they can obtain goods they either don't have the means to produce themself or possess a high opportunity cost for producing it themself
- In economics, people become **specialized** in labor
 - Different people are good at different things
 - As result people do what they're best at and then they trade
 - Supposedly, trade increases human welfare for both parties
 - * Unless you're a third world country

Absolute and Comparative Advantage

- Per unit Opportunity Cost = basically just the opportunity cost per unit produced
- **Absolute Advantage** = a disparity in productive efficiency pertaining to some product
 - With respect to output, the nation with the highest output has the absolute advantage
 - With respect to input, the nation that can produce a unit of product using the fewest resources has the absolute advantage
- Comparative Advantage = a disparity in per unit opportunity cost pertaining to some product
 - The idea is that each nation should produce for what their opportunity cost is lowest
 - With respect to output, the nation with the lowest per unit opportunity cost has the comparative advantage
- Which is more important: **absolute** or **comparative** advantage?
 - It depends on the circumstances
 - * If production *efficiency* is desired, then nations should specialize to produce the product they have the **comparitive advantage** for
 - * If production *quantity* is desired, then nations should specialize to produce the product they have the **absolute advantage** for
 - e.g. Wartime arms production: the nation's safety is on the

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Demand

- **Demand** = a metric of how willing and how able
- Law of Demand = price is inversely related to quantity demanded
 - Why does the law of demand work?
 - 1. **Substitution Effect** = if the price of a product changes, consumers may change habits by purchasing a substitute
 - * Only affects the quantity demanded
 - 2. Income Effect = if the price of a product changes, the purchasing power of consumers increases

- * They are able to purchase more
- 3. Law of Diminishing Marginal Utility = the per-unit utility of a product is inversely related to the quantity purchased
- Demand Schedule = the permutation of prices and quantity desired that the consumer would act in accordance with
 - A demand curve is just a graphical representation of a demand schedule
 - * Is downward-sloping, because of the three factors
 - When interpretting the data, one should assume all else being equal(income, etc)
 - $*\ ceteris\ paribus$