Lecture 1: Four Core Principles of Economics

August 27, 2024

1. Is this the right class for you?

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- 2. Expectations
 - Call me Leah
 - What we learn should be clearly applicable
 - Come prepared to give examples, as I will call on you
 - Understand that no class can satisfy all students
 - This is the first year of an entirely revised course
 - If you have a disability requiring accommodation, please let me know this week

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- 4. Review Syllabus



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- 5. Introductions
 - name
 - program
 - what you want to do when done



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 - name
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 - what you want to do when done
- 6. Ripped from Headlines Assignment



Final Exam Date

December						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- Exam is in person on paper
- Last class Tues. Dec. 10 change due to election holiday
- First exam date Wed. Dec. 11
- Default exam date Tues. Dec. 17
- Does everyone prefer Friday Dec. 13 times?

Before Class

- Read assigned textbook pages
- Read ripped from headlines articles
- Work on problem set

During Class

• Recording! For within class use only

Before Class

- Read assigned textbook pages
- Read ripped from headlines articles
- Work on problem set

During Class

- Recording! For within class use only
- Administrative notes
- Ripped from the Headlines presentation
- Interactive lecture
- Will post notes after class

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During Class

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- Administrative notes
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What you are responsible for on exam

- What we cover in class and in problem sets
- Today we don't cover the production possibility frontier
- You are not responsible for this

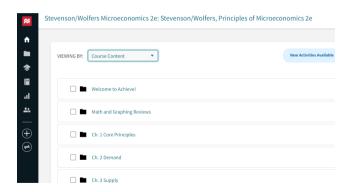


Getting to Online Homework

- Piloting online homework
- Pass/fail
- TA hand grades policy question
- Ignore grades in Achieve
- Will ask for feedback next lecture
- Should have link via BB

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Choosing Assignment

- Officially due 3:30
- We delay deadline for evening section to 6 pm
- But can't separate deadline online
- Check Achieve link works for you this week
- Not Monday at 11 pm!

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Homework Alternative: We'll Try This Lecture 2

- Make all end-of-chapter questions available as a study guide
- Assign other questions as homework
- Still include one policy-focused question

Plan for Today

Welcome to economics! Then

- 1. Cost-Benefit principle
- 2. Opportunity cost principle
- 3. Marginal principle
- 4. Interdependence principle

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With a policy example for each



Welcome to Economics

0. Welcome to Economics

- Textbook written by married couple Stevenson and Wolfers
- Famously apply economics to married life
- Goal for the course is to show you the power of economics to explain decisions
- Economics is an important language for policy makers
- Need not like it, but should understand it

1. Cost-Benefit Principle

The Basics

 $\begin{array}{l} \mathsf{Benefits} > \mathsf{Costs} \\ \to \mathsf{Take} \ \mathsf{action} \end{array}$



The Basics

Benefits > Costs

 \rightarrow Take action

Benefits < Costs

ightarrow Do not take action

The Basics

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The trick is accurately measuring the costs and benefits



Private transaction: Buy a cup of coffee

Benefits

Private transaction: Buy a cup of coffee

Benefits

- enjoyment of flavor
- greater alertness
- cozy place to sit
- use of bathroom (?)

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Your **willingness to pay** is a measure of total benefits

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- waste associated with production
- waste associated with cup and lid

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Costs

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- waste associated with production
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- Total benefit total costs defines decision
- "Money is the measuring stick, not the objective"



Two Key Benefits of Private Transactions

- 1. (Usually) Benefits > Costs for Buyer and Seller
 - If you buy coffee for \$4, your coffee benefit is greater than coffee cost
 - If coffee shop sells coffee for \$4, the coffee shop benefits at least \$4 from selling coffee

Two Key Benefits of Private Transactions

- 1. (Usually) Benefits > Costs for Buyer and Seller
 - If you buy coffee for \$4, your coffee benefit is greater than coffee cost
 - If coffee shop sells coffee for \$4, the coffee shop benefits at least \$4 from selling coffee

- 2. Everyone Maximizes Economic Surplus
 - Economic surplus
 - total benefits total costs from decision
 - consumer value above price * units purchased
 - seller willingness to sell below price * units sold

Policy View: Federal Cost-Benefit Rules

The Beginning: EO 12291

- Reagan signs in 1981
- Requires analysis sometimes

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- Bill Clinton signs in 1993
- Requires CB analysis for rules w/ > \$100 million economic effect
- Promulgate only if B > C
- Extended in 2011 for retrospective reviews



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Biden's Update: Circular A-4 [more info]

- Governs rules for doing benefit-cost analysis
- Biggest changes
 - how much you discount future benefits
 - weight welfare of poor more heavily
 - sometimes consider welfare of those outside US

If you're interested in this, go interact with GW's Regulatory Studies Center.



2. Opportunity Costs

Definition

- Cost of the next best opportunity
- Opportunity cost of purchasing plastic bag at grocery store?

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Why O.C. Are Important

- Because all choices have "or what"?
- "Or what" is the opportunity cost
- O.C. is a "measure of scarcity"
- Some call economics the study of scarcity

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 - Action: Eat out. Is time eating an opp cost? Not if no longer than eating at home



Defining Sunk Costs

 "cost that has been incurred and cannot be reversed"

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 - Fallacy: Stay because we've sacrificed so many lives
 - Logical: Stay because ongoing security needs demand it



Policy Example: Policy Insights MVPF

What is the opp cost of policy X?

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Economists measure marginal value of public funds

willingness to pay cost of public funds



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3. Marginal Principle

Marginal Principle

Make decisions "at the margin." This means

- should I hire one more worker?
- should I make one more dollar of charitable donation?
- should I purchase an additional car?

No. workers	Meals Served	Total Benefits	Marginal Benefit	Total Costs	Marginal Cost	Profit or surplus	•
2	160	4,000	-	3,700	-	300	-
3	210	5,250	?	4,500	?	?	

No.	Meals	Total	Marginal	Total	Marginal	Profit or surplus
workers	Served	Benefits	Benefit	Costs	Cost	
2 3	160	4,000	-	3,700	-	300
	210	5,250	1,250	4,500	800	750

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3	210	5,250	1,250	4,500	800	750
4	250	6,250	?	5,200	?	?

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2	160	4,000	-	3,700	-	300
3	210	5,250	1,250	4,500	800	750
4	250	6,250	1,000	5,200	700	1,050

Using how many workers does marginal benefit = marginal cost?

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3	210	5,250	1,250	4,500	800	750
4	250	6,250	1,000	5,200	700	1,050
5	280	7,000	750	5,800	600	1,200
6	300	7,500	500	6,300	500	1,200
7	310	7,750	250	6,700	400	1,050

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3	210	5,250	1,250	4,500	800	750
4	250	6,250	1,000	5,200	700	1,050
5	280	7,000	750	5,800	600	1,200
6	300	7,500	500	6,300	500	1,200
7	310	7,750	250	6,700	400	1,050

Rational Rule: Keep Going Until Marginal Benefit = Marginal Cost

Action: Spend Another Dollar on Metro Repair?

- Compare marginal benefit of repair dollar to marginal cost
- If value of this dollar spent > opportunity cost of dollar, continue

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- Compare marginal benefit of repair dollar to marginal cost
- If value of this dollar spent > opportunity cost of dollar, continue
- If value of this dollar spent < opportunity cost of dollar, stop
- If value of this dollar spent = opportunity cost of dollar you've hit the sweet spot and are maximizing economic surplus

Policy Example: Use Marginal Logic for Decisions About Taxes

Tax Rate	Single
10%	\$0 - \$11,600
12%	\$11,600 - \$47,150
22%	\$47,150 - \$100,525
24%	\$100,525 - \$191,950
32%	\$191,950 - \$243,725
35%	\$243,725 - \$609,350
37%	Over \$609,350

- Do you want to job at \$50/hour for 3 additional hours per week?
- You will owe taxes on these earnings
- Assume you make \$50,000/year
- How much is \$150/week in earnings after taxes?

Policy Example: Use Marginal Logic for Decisions About Taxes

Tax Rate	Single
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35%	\$243,725 - \$609,350
37%	Over \$609,350

- Do you want to job at \$50/hour for 3 additional hours per week?
- You will owe taxes on these earnings
- Assume you make \$50,000/year
- How much is \$150/week in earnings after taxes?
- Marginal rate is 22%
- You keep 100 22 = 78%
- \$150*(0.78) = \$117

4. Interdependence Principle

Interdependence Principle

- Known among economists as "general equilibrium"
- We are interested in both "partial" and "general" equilibrium outcomes

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- Partial equilibrium
 What happens if we change one thing maybe cap prices and keep everything else the same?

Interdependence Principle

- Known among economists as "general equilibrium"
- We are interested in both "partial" and "general" equilibrium outcomes
- Partial equilibrium
 What happens if we change one thing maybe cap prices and keep everything else the same?
- General equilibrium
 What happens if we change one thing maybe cap prices and allow actors to respond?



1. Between each of your individual choices

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- 2. Between people or businesses in the same market

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- 4. Through time

Aim to limit prices

- Prices are high or rising
- Politicians suggest capping prices

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Immediate impacts

Industry price capped

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Interdependent effects?

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- Producers cut production
- Consumers want more than market produces
- Shortage

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Interdependent effects?

- Producers cut production
- Consumers want more than market produces
- Shortage
- Or producers cut quality

For Next Class

- Do problem set 1
- Work with classmates, me or TA on problems
- Sign up for Ripped from Headlines
- Article finders email me by Wednesday midnight
- Read Chapter 2

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I will

- post these lecture notes on my webpage
- post link to lecture recording on Blackboard
- anything else?

