

SS201: Principles of Economics

Lesson 3: Consumer Choice Theory I
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Agenda

- Admin (5 min)
- In-Class Survey (10 min)
- Consumer Choice Theory
 - Application (20 min)
 - Intuition (15 min)
 - Science (20 min)

Admin

- Issue Analysis Essay
 - Topic due 27SEP
- PS1
 - Cengage due NLT 07 2359 SEP
 - Handout due in class 08SEP
- Questions from last night's reading / pre-class assignment?

Consumer Choice Theory - Application

More is always better?

- 1 x volunteer
- 3 x groups
 - o Group Leaders: 5, 3, 2, 1, 6

Number corresponds to alphabetic order of last name in class

Consumer Choice Theory - Application

Conclusions

- 1. More is <u>ALWAYS</u> better. Assuming ...
- 2. More is <u>ALWAYS</u> better, **but not as good.**

Diminishing Marginal Utility??

Consumer Choice Theory - Intuition

My happiness boils down to two things...

- Scarcity: What I can afford...AKA...Budget Constraint
- **Preferences:** What I want...AKA...Utility Function / Indifference Curves

Consumer Choice Theory - Intuition

My Budget as a 2LT working Summer Training...

What can I afford? (Scarcity) Monthly Budget

Income

Base Pay = \$3,477.30

USMA BAH = \$2,118.00

Deductions

Taxes/SGLI (15%) = \$839.30

Take Home Pay

\$4,756

Item	Amount
Cow Loan	\$756
Rent	\$1,250
Utilities	\$300
Savings (20%)	\$1,000
Food	\$750
Gas	\$200
Entertainment	\$500
TOTAL	\$4,756

Consumer Choice Theory - Intuition

Monthly Budget

Item	Amount
Cow Loan	\$756
Rent	\$1,250
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Savings (20%)	\$1,000
Food	\$750
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Entertainment	\$500
TOTAL	\$4,756

Dinner Decisions

Two choices, assume you value both the same...

- 1. Carne Asada Burrito
- 2. Chicken, Bacon Sensation

How does your spending change if...

- the price of beef doubles?
- your income doubles?
- income and both goods increase by 10%?

Consumer Choice Theory - Science

Monthly Budget

Item	Amount
Cow Loan	\$756
Rent	\$1,250
Utilities	\$300
Savings (20%)	\$1,000
Food	\$750
Gas	\$200
Entertainment	\$500
TOTAL	\$4,756

Budget Constraint

$$I=p_1x_1+p_2x_2$$

Dinner Decisions

Burrito vs. Sandwich

Utility Function

$$U(x_1,x_2)=x_1^{rac{1}{2}}x_2^{rac{1}{2}}$$

Consumer Choice Theory - Science Deriving the Demand Curve

Assumptions

Preferences are **Complete**

 An agent can compare any two things within a set

Budget Constraint

$$I = p_1 x_1 + p_2 x_2$$

Utility Function

$$U(x_1,x_2)=x_1^{rac{1}{2}}x_2^{rac{1}{2}}$$

Preferences are **Transitive**

• If A > B and B > C, then A > C

Let's maximize $U(x_1, x_2) \ s. \ t. \ I = p_1 x_1 + p_2 x_2$

Next time...

We'll derive the supply curve

Talk through different types of goods