

Chapter 15: The NeoClassical School – Alfred Marshall (pg 275 - 300)

Historic Background

1842 – 1924, English

Father, rather tyrannical, “Mans rights and Woman’s Duties”

Against, Math, Chess, and Marshall to be a Minister

Marshall refused to go to Oxford and study “dead languages”,

Instead went to Cambridge, studied math, physics – and economics

A hypochondriac, a perfectionist, slow to publish, cautious...

1890 “Principles of Economics” – defined modern economics

1919 “Industry and Trade” – in printed proofs for 15 years

Marshall popularized diagrammatic Economics

Kept his math in the footnotes

His principles (rewritten a bit to make it more understandable)

- 1) Use math as a shorthand language, not as means of enquiry
- 2) Keep to it until you are done
- 3) Translate your math into English
- 4) Illustrate your results with real world applications
- 5) Burn the mathematics
- 6) If you can’t illustrate with real examples, burn it all and go study something else.

Economic laws are “social tendencies”, and economics is not a body of concrete truth, but is rather an engine for the discovery of concrete truth. The laws of economics may govern how we act and interact, but they are neither good nor bad in and of themselves. Society can, and may indeed wish to, influence them for its own purposes.

Utility and Demand

Demand based on the law of diminishing marginal utility

Two caveats

Assumes a “moment” in time (Short Run)

Over time, tastes can change

Examples: classical music, beer

Indivisible goods: utility can increase,

if a good can’t be consumed in small quantities

Examples, Wallpaper, Tires

Utility dealt with Pleasure/Pain, ala Bentham

How can we measure this? For Marshall, this was easy

Use money.

Early Marginalists: I like it, therefore I will spend more money on it

Marshall: I spent a lot of money on it, so I must like it.

Inside the system or outside the system: Physics vs. Economics

Money measures Utility at the Margin
We can't compare utilities between individuals
But if we take a whole cross section of society,
Differing tastes average out, money does measure utility

*This made economics a quantifiable science
FAR MORE so than any of the other social sciences
It also made it predictive....*

Rational Consumer Choice

Like Jevons, Menger, Gossen, etc.; he described rational choice as
Adherence to the equimarginal principle
But unlike them, he tied it to the law of demand

Law of Demand

A function of Diminishing Marginal Utility and rational consumer choice
 $MU_x/P_x = MU_y/P_y$, for all goods.
If P_x falls, Marshall reasoned that rational consumers would buy more
Until MU_x/P_x again is equal to MU_y/P_y
“the amount demanded increase with a fall in price, and diminishes with a rise in price.”

Illustrated with both graphs and tables, “ceteris Paribus”
Tastes, wealth, substitutes, all held constant
These became the “determinates of demand”
A change in the “quantity demanded”, vs. a change in “the demand curve”
He was also aware of (but didn't fully explore) substitution and income effects

Consumer Surplus

Superior understanding to Dupuit, and Menger....
Only two real problems remained....

Marshall used tea as his example, because there is no income effect
Marshall asserted that we could measure it for markets, which is problematic

Elasticity of Demand

He handled it far better than predecessors
Illustrated it Mathematically, verbally, and diagrammatically
Determinates of elasticity included Income, percent of income,
substitutes, etc.

Supply

Supply depends on the cost of production, but it is a curve, not a point
Depends on time: the immediate present, short run, and long run

The Immediate Present

The time when the quantity supplied can't be increased/decreased
For a perishable good, this means inelastic supply curve
For other goods, a reservation price for most suppliers
But not all, the supply curve rises, then becomes vertical

Short Run

Supplementary costs and Prime costs

Now called fixed costs and variable costs

The short run is the period where supplementary costs are fixed

Variable costs include labor, raw materials, etc.

Variable costs must be covered in the short run, but not all costs

To supply more of the good, hire more labor/longer hours

Declining utility of income to workers, so you must pay them more

This causes our supply curve to slope upwards

This part of Marshall needed improvement

Long Run

Now all costs are variable, and must be covered

Changes in the long run are shifts to the supply curve, shifting it in/out

Equilibrium Price and Quantity

What determines market price?

Classical Economics – Supply

Marginalists – demand

Marshall – Both

The blades of scissor....

Numerical Illustration (see book)

Graphical Illustration

Marshall thought quantity the independent variable, put on horiz. Axis

We now think of it as the dependent variable – no matter...

Now he added consumer surplus, and producer surplus

His graphical analysis also now allowed for real consideration of time....

Demand more important in determining price in the short run

But over time, supply can respond

(looking for point data, vs. looking for functions)

But demand curves can shift in the long run as well, for various

reasons

Distribution of Income

Income is distributed by the pricing of factors of production in the economy

At the margin, the marginal value to price ratio must be equal across factors

Wages

Wages are not just determined by the marginal productivity of labor

The marginal productivity of labor determines the demand for labor

The demand curve for labor a derived demand

The demand is for the goods the labor can/is producing

Note that the wage rate is determined by the above, AND ALSO supply

Marshall's four laws of derived demand

- 1) Other things equal, the greater the substitutability of other factors for labor, the greater will be the elasticity of demand for labor.
(if robots can easily substitute, elastic demand for labor)
- 2) Other things equal, the greater the price elasticity of product demand, the greater will be the elasticity of labor demand.

- (When restaurant meals go up in price, many waiters lose jobs)
- 3) Other things being equal, the larger the proportion of total production cost accounted for by labor, the greater will be the elasticity of labor demand.
(that one key guy has a pretty safe job)
 - 4) Other things being equal, the greater the elasticity of the supply of other inputs, the greater the elasticity of demand for labor.
(the easier it is to buy other inputs, the easier to fire labor)

Interest....