OUTLINE — October 23, 2017

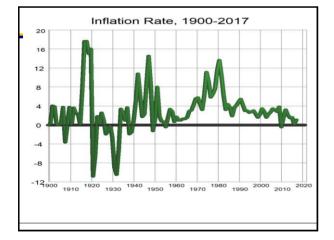
- Measuring Unemployment and Inflation, continued
- Concept of Macroeconomic Equilibrium
 - Keynesian Cross
 - "Unemployment Equilibrium"
 - Effect of being a service economy
- Consumption Spending & Its Determinants
 - Saving
 - Consumption Spending Depends upon . . .

PS 3 due 10/23 – 10/24in section Bcourses reading quiz due Tuesday night 11:59 pm Midterm 2 : Wed., Nov 1, 7-8:30 pm

The Unemployment Problem

- Discouraged workers
 - 146,000 in Sept 2017
- Underemployed workers
 - Part-time (<35 hrs/week) & want full-time: 5.1 million in Sept 2017
- Neither group included in unemployment rate
 - "U-6 unemployment rate" in Sept 2017 was 8.3%

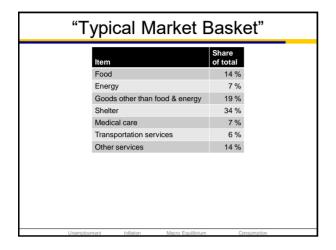
Inemployment Inflation Macro Equilibrium Consumption



Measuring Prices

- Measures average price of a mix of goods and services
- No units . . . Just a number
- CPI -- Consumer Price Index
 - Uses "typical urban market basket" from base period
 - · Base period is 1982-84
- GDP Deflator (or, GDP Price Index)
 - Uses all goods & services produced from that year
 - 1998 index uses 1998 quantities; 2016 index uses 2016 quantities
 - Base year is 2009

Unemployment Inflation Macro Equilibrium Consumption



Inflation Rate with CPI CPI_{Sept 2017} = 246.8 CPI_{Sept 2016} = 241.4 Inflation rate = Core CPI = CPI Excluding food & energy: Core CPI in Sept 2016 = 248.7 Core CPI in Sept 2017 = 252.9

What determines unemployment?

- Output (GDP) → Employment → Unemployment
- So key question: what determines how much output firms produce?
- Key assumption of Keynesian Model:
 - Businesses change how much output they are producing only when they experience or anticipate changes in demand
 - That is, businesses respond to aggregate demand
 - Aggregate demand = C + I + G + EX IM
 - · Businesses maximize profit, not employment

Unemployment Inflation Macro Equilibrium Consumption

Macroeconomic Equilibrium

- We say:
 - The economy is in "macroeconomic equilibrium" when total output (GDP) equals aggregate demand (C+I+G+EX-IM)
- Equilibrium isn't a policy goal; it's where the economy takes itself
- If AD is <u>not</u> changing, then firms have <u>no incentive to</u> change output between one period and the next

Unemployment Inflation Macro Fauilibrium Consumption

Moving to A New Equilibrium

- Why would businesses change how much output they are producing?
 - Because there's an actual or anticipated change in demand for their goods and services
 - Increase in aggregate demand? Produce more output
 - Decrease in aggregate demand? Produce less output

Harris Brown Committee

Adjustment Process

- How do they know demand changed?
 - For businesses selling services:
 - For businesses selling goods:
- Demand falls unexpectedly?
 - .
- Demand rises unexpectedly?
 - .

Inemployment Inflation Macro Equilibrium Consumption

Macroeconomic Equilibrium

■ The macroeconomy is in equilibrium when

Output = Aggregate Demand

GDP = AD

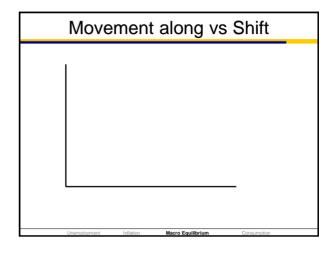
Y = AD

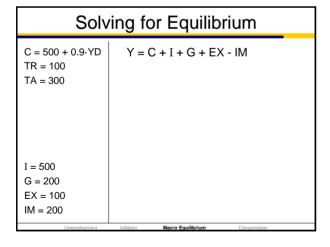
Y = C + I + G + (EX - IM)

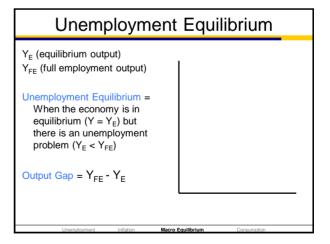
Homployment Inflation Macro Faulibrium Consumption

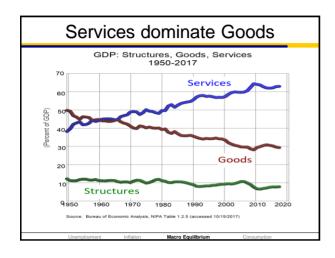
	Unomployment	Inflation	Macro Equilibrium	Consumption	
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	Keynesian Cross Diagram				

Algebra of Equilibrium						
Suppose AD = 400 + 0.8Y What's equilibrium						
Units?	AD = \$4	D = \$400 billion/year + 0.8Y				
Unemplo	ment Inflati					
Unemploy	rinein IIIIdli	UII MIACIO E	quilibrium Consumption			









Effect of Being a Service Economy

- Only goods can be produced ahead of demand
 - Think about economy at the trough of business cycle
 - Optimistic that economy will recover soon?
 - → Produce more goods now, in anticipation of demand BUT can't produce services ahead of demand
 - More services?
 - \Rightarrow more need to wait for <u>actual</u> increase in demand \Rightarrow slower recovery
- Thus: More services? Slower recovery

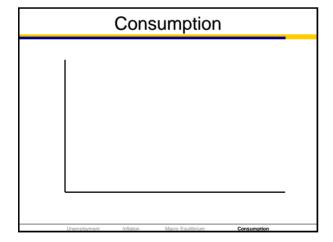
Unemployment Inflation Macro Equilibrium Consumption

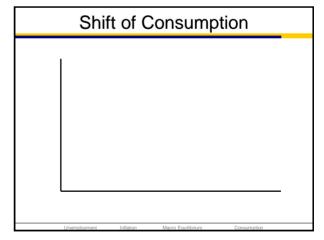
Definitions: Consumption & Saving Consumption Household (and nonprofit organizations) spending for final goods and services Saving Any use of disposable income other than consumption Saving rate



Consumption Spending				
C depends upon				
• YD				
• wealth				
interest rates (i)				
credit availability				
expectations				

Consumption Spending ■ C = f (YD, wealth, i, credit availability, expectations) ■ But can only graph in 2 dimensions . . .





Marginal Propensity to Consume					
■ mpc =					
■ For the economy as a whole, mpc < 1					
■ ∆C =					

