CHAPTER 9	
SAVING, INVESTMENT AND THE FINANCIAL SYSTEM	
CONTENTS	
What are the main types of financial institutions in the U.S. economy, and what is their function?	
What are the three kinds of saving?	
What's the difference between saving and investment?	
 How does the financial system coordinate saving and investment? 	
 How do govt policies affect saving, investment, and the interest rate? 	
Financial Institutions	
The financial system : the group of institutions that helps match the saving of one person with the	
investment of another. Financial markets: institutions through which savers	
can <u>directly</u> provide funds to borrowers. Examples: The Bond Market. A bond is a certificate of indebtedness.	
The Stock Market.	-
A stock is a claim to partial ownership in a firm.	

Financial Institutions	
 Financial intermediaries: institutions through which savers can indirectly provide funds to borrowers. Examples: 	
• Banks	
 Mutual funds – institutions that sell shares to the public and use the proceeds to buy portfolios of stocks and bonds 	
Pifferent Kinds of One trans	
Different Kinds of Saving Private saving	
= The portion of households' income that is not used for consumption or paying taxes	
= Y - T - C	
Public saving = Tax revenue less government spending	
= T - G	
National Cavina	
National Saving	
National saving = private saving + public saving	
= (Y - T - C) + (T - G)	
Y - C - Gthe portion of national income that is not used for	
consumption or government purchases	

Saving a	nd Investment		
	come accounting identity:		
Y = C + I + G + N For the rest of this chaeconomy case:	apter, focus on the closed		
Y = C + I + G	national saving		
Solve for \mathbf{I} : $\mathbf{I} = \mathbf{Y} - \mathbf{C} - \mathbf{G}$	$= (\mathbf{Y} - \mathbf{T} - \mathbf{C}) + (\mathbf{T} - \mathbf{G})$		
	ent in a closed economy		
carg = mvodimo	a discour doctromy		
Budget Defic	its and Surpluses		
Budget surplus			
	venue over govt spending		
= public saving			
Budget deficit = a shortfall of tax rev	venue from govt spending		
= G – T	3 · · · · · · · · · · · · · · · · · · ·		
= - (public saving)			
ACTIVE LEARNIN	G 1:		
Exercise Suppose GDP equal	als \$10 trillion.		
consumption equal	s \$6.5 trillion, ends \$2 trillion		
and has a budget d	leficit of \$300 billion. taxes, private saving,		
national saving, and	d investment.		

ACTIVE LEARNING 1B: Exercise	
Now suppose the government cuts taxes by \$200 billion.	
 In each of the following two scenarios. 	
determine what happens to public saving, private saving, national saving, and investment.	
 Consumers save the full proceeds of the tax cut. 	
2. Consumers save 1/4 of the tax cut and spend the other 3/4.	
The Meaning of Saving and Investment	
Private saving is the income remaining after households pay their taxes and pay for consumption.	
Examples of what households do with saving: buy corporate bonds or equities	
purchase a certificate of deposit at the bank buy shares of a mutual fund	
let accumulate in saving or checking accounts	
The Meaning of Saving and Investment	
Investment is the purchase of new capital.	
Examples of investment: General Motors spends \$250 million to build	
a new factory in Flint, Michigan.	

You buy \$5000 worth of computer equipment for

Your parents spend \$300,000 to have a new

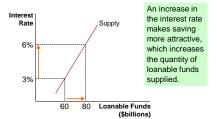
Remember: In economics, investment is NOT the purchase of stocks and bonds!

your business.

house built.

The Market for Loanable Funds	
 A supply-demand model of the financial system. Helps us understand 	
how the financial system coordinates which is a simulation of the state of	
saving & investmenthow govt policies and other factors affect saving, investment,	
the interest rate	
The Market for Loanable Funds	
Assume: only one financial market. All savers deposit their saving in this market.	
All borrowers take out loans from this market.	
There is one interest rate, which is both the return to saving and	
the cost of borrowing.	
The Market for Loanable Funds	
The supply of loanable funds comes from saving:	
Households with extra income can loan it out and earn interest.	
 Public saving, if positive, adds to national saving and the supply of loanable funds. 	
If negative, it reduces national saving and the supply of loanable	
funds.	

The Slope of the Supply Curve

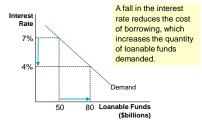


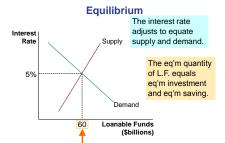
The Market for Loanable Funds

The demand for loanable funds comes from investment:

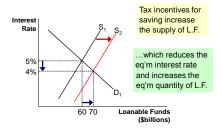
- Firms borrow the funds they need to pay for new equipment, factories, etc.
- Households borrow the funds they need to purchase new houses.

The Slope of the Demand Curve

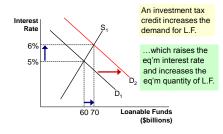




Policy 1: Saving Incentives



Policy 2: Investment Incentives



ACTIVE LEARNING 2:	
Exercise	
Use the loanable funds model to analyze the effects of a government budget deficit:	
Draw the diagram showing the initial equilibrium.	
Determine which curve shifts when the government runs a budget deficit.	
Draw the new curve on your diagram.	
 What happens to the equilibrium values of the interest rate and investment? 	
Những chính sách đầu tư, miễn giảm thuế làm thaỷ [∜] đổi cung và cầu vốn vay, cũng như thay đổi lãi suất trên thị trường vốn vay	
vay, cong into thay do lar suac tion on though von vay	Cán cân ngân sách của chính phủ bị thâm hụt (T is small), saving of gov decreases national saving decreases too => supply shifts to the left interest rate increases
Budget Deficits, Crowding Out, and Long-Run Growth	
Our analysis: increase in budget deficit causes	
fall in investment. The govt borrows to finance its deficit,	
leaving less funds available for investment.	
 This is called crowding out. Recall from the preceding chapter: Investment 	
is important for long-run economic growth. Hence, budget deficits reduce the economy's	
growth rate and future standard of living.	
CHAPTER SUMMARY	
 The U.S. financial system is made up of many 	
types of financial institutions, like the stock and bond markets, banks, and mutual funds.	
 National saving equals private saving plus public saving. 	
 In a closed economy, national saving equals investment. The financial system makes this happen. 	
10.1	

PTFR		

- The supply of loanable funds comes from saving.
 The demand for funds comes from investment.
 The interest rate adjusts to balance supply and demand in the loanable funds market.
- A government budget deficit is negative public saving, so it reduces national saving, the supply of funds available to finance investment.
- When a budget deficit crowds out investment, it reduces the growth of productivity and GDP.