



This is “The Foundations of Business”, chapter 1 from the book [An Introduction to Business \(index.html\)](#) (v. 2.0).

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Chapter 1

The Foundations of Business

Why Is Apple Successful?

In 1976 Steve Jobs and Steve Wozniak created their first computer, the Apple I. This vignette is based on an honors thesis written by Danielle M. Testa, “Apple, Inc.: An Analysis of the Firm’s Tumultuous History, in Conjunction with the Abounding Future” (Lehigh University), November 18, 2007. They invested a mere \$1,300 and set up business in Jobs’s garage. Three decades later, their business—Apple Inc.—has become one of the world’s most influential and successful companies. Did you ever wonder why Apple flourished while so many other young companies failed? How did it grow from a garage start-up to a company generating \$65 billion in sales? How was it able to transform itself from a nearly bankrupt firm to a multinational corporation with locations all around the world? You might conclude that it was the company’s products, such as the Apple I and II, the Macintosh, or more recently its wildly popular iPod, iPhone, and iPad. Or you might decide that it was its people: its dedicated employees and loyal customers. Perhaps you will decide it was luck—Apple simply was in the right place at the right time. Or maybe you will attribute the company’s success to management’s willingness to take calculated risks. Perhaps you will attribute Apple’s initial accomplishments and reemergence to its cofounder, the late Steve Jobs. After all, Jobs was instrumental in the original design of the Apple I and, after being ousted from his position with the company, returned to save the firm from destruction and lead it onto its current path.

Before we decide what made Apple what it is today and what will propel it into a successful future, let’s see if you have all the facts about the possible choices: its products, its customers, luck, willingness to take risks, or Steve Jobs. We’re confident that you’re aware of Apple’s products and understand that “Apple customers are a loyal bunch. Though they’re only a small percentage of all computer users, they make up for it with their passion and outspokenness.” Ellen Lee, “Faithful, sometimes fanatical Apple customers continue to push the boundaries of loyalty,” *San Francisco Chronicle*, March 26, 2006. We believe you can understand the role that luck or risk taking could play in Apple’s success. But you might like to learn more



about Steve Jobs, the company's cofounder and former CEO, before arriving at your final decision.

Following the iPad's release in 2010, it has become popular for a variety of uses including use by students.

Growing up, Jobs had an interest in computers. He attended lectures at Hewlett-Packard after school and worked for the company during the summer months. He took a job at Atari after graduating from high school and saved his money to make a pilgrimage to India to search for spiritual enlightenment. Following his India trip, he attended Steve Wozniak's "Homebrew Computer Club" meetings, where the idea for building a personal computer surfaced. Lee Angelelli, "Steve Paul Jobs," <http://ei.cs.vt.edu/~history/Jobs.html> (accessed January 21, 2012). "Many colleagues describe Jobs as a brilliant man who could be a great motivator and positively charming. At the same time his drive for perfection was so strong that employees who did not meet his demands are faced with blistering verbal attacks." Lee Angelelli, "Steve Paul Jobs," <http://ei.cs.vt.edu/~history/Jobs.html> (accessed January 21, 2012). Not everyone at Apple appreciated Jobs's brilliance and ability to motivate. Nor did they all go along with his willingness to do whatever it took to produce an innovative, attractive, high-quality product. So at age thirty, Jobs found himself ousted from Apple by John Sculley, whom Jobs himself had hired as president of the company several years earlier. It seems that Sculley wanted to cut costs and thought it would be easier to do so without Jobs around. Jobs sold \$20 million of his stock and went on a two-month vacation to figure out what he would do for the rest of his life. His solution: start a new personal computer company called NextStep. In 1993, he was invited back to Apple (a good thing, because neither his new company nor Apple was doing well).

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Steve Jobs was definitely not humble, but he was a visionary and had a right to be proud of his accomplishments. Some have commented that "Apple's most successful days have occurred with Steve Jobs at the helm." Cyrus Farivar, "Apple's first 30 years; three decades of contributions to the computer industry," *Macworld*, June 2006, 2. Jobs did what many successful CEOs and managers do: he learned, adjusted, and improvised. Dan Barkin, "He made the iPod: How Steve Jobs of Apple created the new millennium's signature invention," *Knight Ridder Tribune Business News*, December 3, 2006, 1. Perhaps the most important statement that can be made about him is this: he never gave up on the company that once turned its back on him. So now you have the facts. Here's a multiple-choice question that you'll likely get right: Apple's success is due to (a) its products, (b) its customers, (c) luck, (d) willingness to take risks, (e) Steve Jobs, or (f) some combination of these options.

1.1 Introduction

As the story of Apple suggests, today is an interesting time to study business. Advances in technology are bringing rapid changes in the ways we produce and deliver goods and services. The Internet and other improvements in communication (such as smartphones, video conferencing, and social networking) now affect the way we do business. Companies are expanding international operations, and the workforce is more diverse than ever. Corporations are being held responsible for the behavior of their executives, and more people share the opinion that companies should be good corporate citizens. Plus—and this is a big plus—businesses today are facing the lingering effects of what many economists believe is the worst financial crisis since the Great Depression. Jon Hilsenrath, Serena Ng, and Damian Paletta, “Worst Crisis Since ’30s, With No End Yet in Sight,” *Wall Street Journal*, Markets, September 18, 2008, <http://online.wsj.com/article/SB122169431617549947.html> (accessed January 21, 2012). Economic turmoil that began in the housing and mortgage industries as a result of troubled subprime mortgages quickly spread to the rest of the economy. In 2008, credit markets froze up and banks stopped making loans. Lawmakers tried to get money flowing again by passing a \$700 billion Wall Street bailout, yet businesses and individuals were still denied access to needed credit. Without money or credit, consumer confidence in the economy dropped and consumers cut back their spending. Businesses responded by producing fewer products, and their sales and profits dropped. Unemployment rose as troubled companies shed the most jobs in five years, and 760,000 Americans marched to the unemployment lines. “How the Economy Stole the Election,” *CNN.com*, http://money.cnn.com/galleries/2008/news/0810/gallery.economy_election/index.html (accessed January 21, 2012). The stock market reacted to the financial crisis and its stock prices dropped by 44 percent while millions of Americans watched in shock as their savings and retirement accounts took a nose dive. In fall 2008, even Apple, a company that had enjoyed strong sales growth over the past five years, began to cut production of its popular iPhone. Without jobs or cash, consumers would no longer flock to Apple’s fancy retail stores or buy a prized iPhone. Dan Gallagher, “Analyst says Apple is cutting back production as economy weakens,” *MarketWatch*, November 3, 2008, http://www.marketwatch.com/news/story/apple-cutting-back-iphone-production/story.aspx?guid=%7B7F2B6F99-D063-4005-87AD-D8C36009F29B%7D&dist=msr_1 (accessed January 21, 2012). Things have turned around for Apple, which reported blockbuster sales for 2011 in part because of strong customer response to the iPhone 4S. But not all companies or individuals are doing so well. The economy is still struggling, unemployment is high (particularly for those ages 16 to 24), and home prices remain low.

As you go through the course with the aid of this text, you'll explore the exciting world of business. We'll introduce you to the various activities in which businesspeople engage—accounting, finance, information technology, management, marketing, and operations. We'll help you understand the roles that these activities play in an organization, and we'll show you how they work together. We hope that by exposing you to the things that businesspeople do, we'll help you decide whether business is right for you and, if so, what areas of business you'd like to study further.

1.2 Getting Down to Business

LEARNING OBJECTIVE

1. Identify the main participants of business, the functions that most businesses perform, and the external forces that influence business activities.

A **business**¹ is any activity that provides goods or services to consumers for the purpose of making a profit. When Steve Jobs and Steve Wozniak created Apple Computer in Jobs's family garage, they started a business. The product was the Apple I, and the company's founders hoped to sell their computers to customers for more than it cost to make and market them. If they were successful (which they were), they'd make a **profit**².

Before we go on, let's make a couple of important distinctions concerning the terms in our definitions. First, whereas Apple produces and sells *goods* (Mac, iPhone, iPod, iPad), many businesses provide *services*. Your bank is a service company, as is your Internet provider. Hotels, airlines, law firms, movie theaters, and hospitals are also service companies. Many companies provide both goods and services. For example, your local car dealership sells goods (cars) and also provides services (automobile repairs).

Second, some organizations are not set up to make profits. Many are established to provide social or educational services. Such **not-for-profit (or nonprofit) organizations**³ include the United Way of America, Habitat for Humanity, the Boys and Girls Clubs, the Sierra Club, the American Red Cross, and many colleges and universities. Most of these organizations, however, function in much the same way as a business. They establish goals and work to meet them in an effective, efficient manner. Thus, most of the business principles introduced in this text also apply to nonprofits.

Business Participants and Activities

Let's begin our discussion of business by identifying the main participants of business and the functions that most businesses perform. Then we'll finish this section by discussing the external factors that influence a business's activities.

1. Activity that provides goods or services to consumers for the purpose of making a profit.

2. Difference between the revenue that a company brings in from selling goods and services and the costs of generating this revenue.

3. Organization that has a purpose other than returning profits to owners.

Participants

Every business must have one or more *owners* whose primary role is to invest money in the business. When a business is being started, it's generally the owners who polish the business idea and bring together the resources (money and people) needed to turn the idea into a business. The owners also hire *employees* to work for the company and help it reach its goals. Owners and employees depend on a third group of participants—*customers*. Ultimately, the goal of any business is to satisfy the needs of its customers in order to generate a profit for the owners.

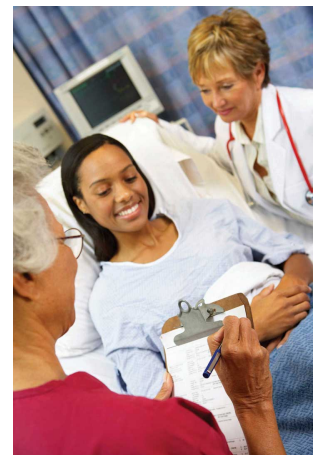
Functional Areas of Business

The activities needed to operate a business can be divided into a number of *functional areas*: management, operations, marketing, accounting, and finance. Let's briefly explore each of these areas.

Management

Managers are responsible for the work performance of other people. **Management**⁴ involves planning for, organizing, staffing, directing, and controlling a company's resources so that it can achieve its goals. Managers *plan* by setting goals and developing strategies for achieving them. They *organize* activities and resources to ensure that company goals are met. They *staff* the organization with qualified employees and *direct* them to accomplish organizational goals. Finally, managers design *controls* for assessing the success of plans and decisions and take corrective action when needed.

Figure 1.1



Hospitals specialize in an intangible product—health care.

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Operations

All companies must convert resources (labor, materials, money, information, and so forth) into goods or services. Some companies, such as Apple, convert resources into *tangible* products—Macs, iPhones, iPods, iPads. Others, such as hospitals, convert resources into *intangible* products—health care. The person who designs and oversees the transformation of resources into goods or services is called an **operations manager**⁵. This individual is also responsible for ensuring that products are of high quality.

4. Process of planning for, organizing, directing, and controlling a company's resources so that it can achieve its goals.

5. Person who designs and oversees the process that converts resources into goods or services.

Marketing

Marketing⁶ consists of everything that a company does to identify customers' needs and designs products to meet those needs. Marketers develop the benefits and features of products, including price and quality. They also decide on the best method of delivering products and the best means of promoting them to attract and keep customers. They manage relationships with customers and make them aware of the organization's desire and ability to satisfy their needs.

Accounting

Managers need accurate, relevant, timely financial information, and accountants provide it. **Accountants**⁷ measure, summarize, and communicate financial and managerial information and advise other managers on financial matters. There are two fields of accounting. *Financial accountants* prepare financial statements to help users, both inside and outside the organization, assess the financial strength of the company. *Managerial accountants* prepare information, such as reports on the cost of materials used in the production process, for internal use only.

Finance

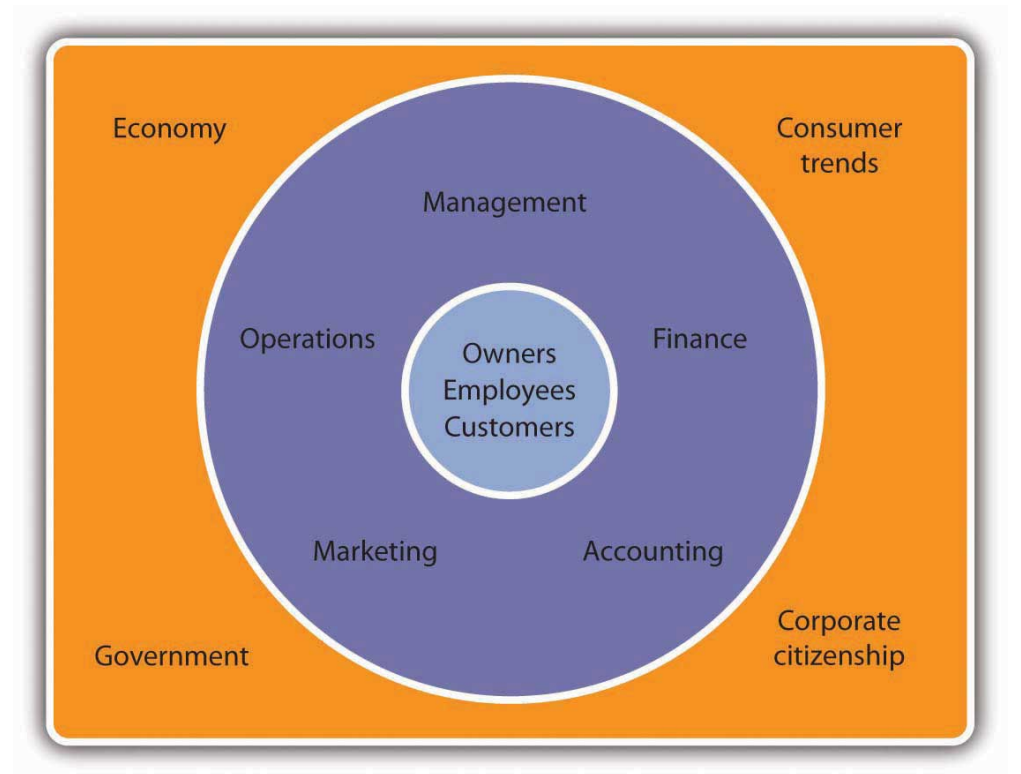
Finance⁸ involves planning for, obtaining, and managing a company's funds. Finance managers address such questions as the following: How much money does the company need? How and where will it get the necessary money? How and when will it pay the money back? What should it do with its funds? What investments should be made in plant and equipment? How much should be spent on research and development? How should excess funds be invested? Good financial management is particularly important when a company is first formed, because new business owners usually need to borrow money to get started.

6. Marketing is the activity, set of institutions, and processes for creating, communicating, delivering, and exchanging offerings that have value for customers, clients, partners, and society at large.

7. Financial advisor responsible for measuring, summarizing, and communicating financial and managerial information.

8. Activities involved in planning for, obtaining, and managing a company's funds.

Figure 1.2 *Business and Its Environment*



External Forces that Influence Business Activities

Apple and other businesses don't operate in a vacuum: they're influenced by a number of external factors. These include the economy, government, consumer trends, and public pressure to act as good corporate citizens. **Figure 1.2 "Business and Its Environment"** sums up the relationship among the participants in a business, its functional areas, and the external forces that influence its activities. One industry that's clearly affected by all these factors is the fast-food industry. A strong *economy* means people have more money to eat out at places where food standards are monitored by a *government* agency, the Food and Drug Administration. Preferences for certain types of foods are influenced by *consumer trends* (eating fried foods might be OK one year and out the next). Finally, a number of decisions made by the industry result from its *desire to be a good corporate citizen*. For example, several fast-food chains have responded to environmental concerns by eliminating Styrofoam containers. David Baron, "Facing-Off in Public," *Stanford Business*, April 15, 2006, http://www.gsb.stanford.edu/news/bmag/sbsm0308/feature_face_off.shtml (accessed January 21, 2012). As you move through this text, you'll learn more about these external influences on business. (**Section 1.3 "What Is Economics?"** will introduce in detail one of these external factors—the economy.)

KEY TAKEAWAYS

- The main participants in a business are its owners, employees, and customers.
- Businesses are influenced by such external factors as the economy, government, consumer trends, and public pressure to act as good corporate citizens.
- The activities needed to run a business can be divided into five functional areas:
 1. **Management** involves planning, organizing, staffing, directing, and controlling resources to achieve organizational goals.
 2. **Operations** transforms resources (labor, materials, money, and so on) into products.
 3. **Marketing** works to identify and satisfy customers' needs.
 4. **Finance** involves planning for, obtaining, and managing company funds.
 5. **Accounting** entails measuring, summarizing, and communicating financial and managerial information.

EXERCISES

1. (AACSB) Analysis

The Martin family has been making guitars out of its factory in Nazareth, Pennsylvania, factory for more than 150 years. In 2004, Martin Guitar was proud to produce its millionth instrument. Go to <http://www.martinguitar.com> to link to the Martin Guitar Web site and read about the company's long history. You'll discover that, even though it's a family-run company with a fairly unique product, it operates like any other company. Identify the main activities or functions of Martin Guitar's business and explain how each activity benefits the company.

2. (AACSB) Analysis

Name four external factors that have an influence on business. Give examples of the ways in which each factor can affect the business performance of two companies: Wal-Mart and Ford.

1.3 What Is Economics?

LEARNING OBJECTIVES

1. Define *economics* and identify factors of production.
2. Explain how economists answer the three key economics questions.
3. Compare and contrast economic systems.

To appreciate how a business functions, we need to know something about the economic environment in which it operates. We begin with a definition of economics and a discussion of the resources used to produce goods and services.

Resources: Inputs and Outputs

Economics⁹ is the study of the production, distribution, and consumption of goods and services. **Resources**¹⁰ are the *inputs* used to produce *outputs*. Resources may include any or all of the following:

- Land and other natural resources
- Labor (physical and mental)
- Capital, including buildings and equipment
- Entrepreneurship

Resources are combined to produce goods and services. Land and natural resources provide the needed raw materials. Labor transforms raw materials into goods and services. Capital (equipment, buildings, vehicles, cash, and so forth) are needed for the production process. Entrepreneurship provides the skill and creativity needed to bring the other resources together to produce a good or service to be sold to the marketplace.

Because a business uses resources to *produce* things, we also call these resources **factors of production**¹¹. The factors of production used to produce a shirt would include the following:

- The land that the shirt factory sits on, the electricity used to run the plant, and the raw cotton from which the shirts are made
- The laborers who make the shirts

9. Study of how scarce resources are used to produce outputs—goods and services—that are distributed among people.

10. Inputs used to produce outputs.

11. Resources consisting of land, labor, capital (money, buildings, equipment), and entrepreneurial skills combined to produce goods and services.

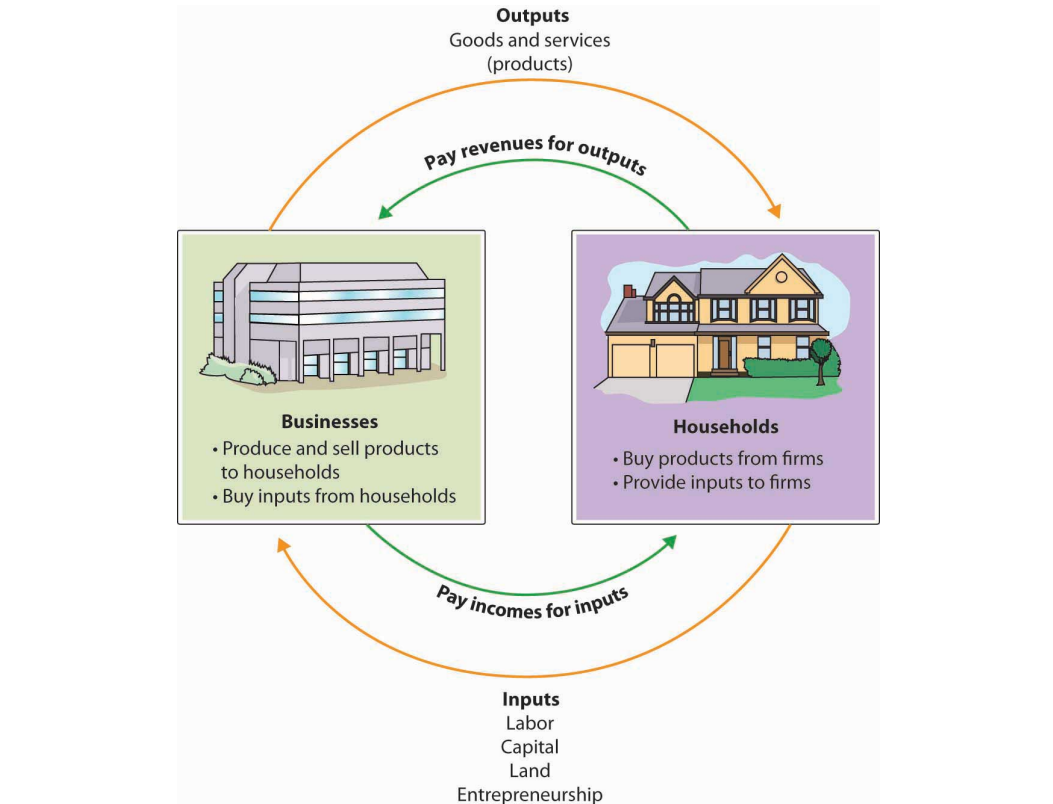
- The factory and equipment used in the manufacturing process, as well as the money needed to operate the factory
- The entrepreneurship skill used to coordinate the other resources to initiate the production process and the distribution of the goods or services to the marketplace

Input and Output Markets

Many of the factors of production (or resources) are provided to businesses by households. For example, households provide businesses with labor (as workers), land and buildings (as landlords), and capital (as investors). In turn, businesses pay households for these resources by providing them with income, such as wages, rent, and interest. The resources obtained from households are then used by businesses to produce goods and services, which are sold to the same households that provide businesses with revenue. The revenue obtained by businesses is then used to buy additional resources, and the cycle continues. This circular flow is described in Figure 1.3 "The Circular Flow of Inputs and Outputs", which illustrates the dual roles of households and businesses:

- Households not only provide factors of production (or resources) but also consume goods and services.
- Businesses not only buy resources but also produce and sell both goods and services.

Figure 1.3 *The Circular Flow of Inputs and Outputs*



The Questions Economists Ask

Economists study the interactions between households and businesses and look at the ways in which the factors of production are combined to produce the goods and services that people need. Basically, economists try to answer three sets of questions:

1. *What goods and services should be produced to meet consumers' needs?* In what quantity? When should they be produced?
2. *How should goods and services be produced?* Who should produce them, and what resources, including technology, should be combined to produce them?
3. *Who should receive the goods and services produced?* How should they be allocated among consumers?

Economic Systems

The answers to these questions depend on a country's **economic system**¹²—the means by which a society (households, businesses, and government) makes decisions about allocating resources to produce products and about distributing those products. The degree to which individuals and business owners, as opposed to the government, enjoy freedom in making these decisions varies according to the type of economic system. Generally speaking, economic systems can be divided into two systems: *planned systems* and *free market systems*.

Planned Systems

In a planned system, the government exerts control over the allocation and distribution of all or some goods and services. The system with the highest level of government control is **communism**¹³. In theory, a communist economy is one in which the government owns all or most enterprises. Central planning by the government dictates which goods or services are produced, how they are produced, and who will receive them. In practice, pure communism is practically nonexistent today, and only a few countries (notably North Korea and Cuba) operate under rigid, centrally planned economic systems.

Under **socialism**¹⁴, industries that provide essential services, such as utilities, banking, and health care, may be government owned. Other businesses are owned privately. Central planning allocates the goods and services produced by government-run industries and tries to ensure that the resulting wealth is distributed equally. In contrast, privately owned companies are operated for the purpose of making a profit for their owners. In general, workers in socialist economies work fewer hours, have longer vacations, and receive more health care, education, and child-care benefits than do workers in capitalist economies. To offset the high cost of public services, taxes are generally steep. Examples of socialist countries include Sweden and France.

Free Market System

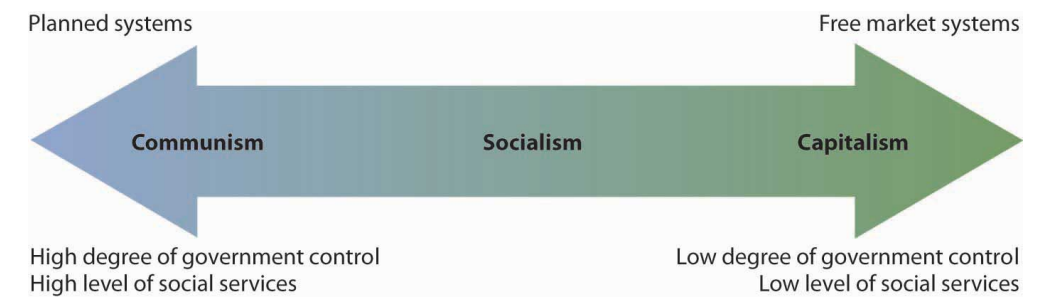
The economic system in which most businesses are owned and operated by individuals is the **free market system**¹⁵, also known as **capitalism**¹⁶. As we will see next, in a free market, *competition* dictates how goods and services will be allocated. Business is conducted with only limited government involvement. The economies of the United States and other countries, such as Japan, are based on capitalism.

12. Means by which a society makes decisions about allocating resources to produce and distribute products.
13. Economic system featuring the highest level of government control over allocation and distribution.
14. Economic system falling between communism and capitalism in terms of government control over allocation and distribution.
15. Economic system in which most businesses are owned and operated by individuals.
16. Economic system featuring the lowest level of government control over allocation and distribution.

How Economic Systems Compare

In comparing economic systems, it's helpful to think of a continuum with communism at one end and pure capitalism at the other, as in [Figure 1.4 "The Spectrum of Economic Systems"](#). As you move from left to right, the amount of government control over business diminishes. So, too, does the level of social services, such as health care, child-care services, social security, and unemployment benefits.

Figure 1.4 *The Spectrum of Economic Systems*



Mixed Market Economy

Though it's possible to have a pure communist system, or a pure capitalist (free market) system, in reality many economic systems are mixed. A **mixed market economy**¹⁷ relies on both markets and the government to allocate resources. We've already seen that this is what happens in socialist economies in which the government controls selected major industries, such as transportation and health care, while allowing individual ownership of other industries. Even previously communist economies, such as those of Eastern Europe and China, are becoming more mixed as they adopt capitalistic characteristics and convert businesses previously owned by the government to private ownership through a process called **privatization**¹⁸.

The U.S. Economic System

Like most countries, the United States features a mixed market system: though the U.S. economic system is primarily a free market system, the federal government controls some basic services, such as the postal service and air traffic control. The U.S. economy also has some characteristics of a socialist system, such as providing social security retirement benefits to retired workers.

17. Economic system that relies on both markets and government to allocate resources.

18. Process of converting government-owned businesses to private ownership.

The free market system was espoused by Adam Smith in his book *The Wealth of Nations*, published in 1776. According to many scholars, *The Wealth of Nations* not only

is the most influential book on free-market capitalism but remains relevant today. According to Smith, competition alone would ensure that consumers received the best products at the best prices. In the kind of competition he assumed, a seller who tries to charge more for his product than other sellers won't be able to find any buyers. A job-seeker who asks more than the going wage won't be hired. Because the "invisible hand" of competition will make the market work effectively, there won't be a need to regulate prices or wages.

Almost immediately, however, a tension developed among free market theorists between the principle of *laissez-faire*—leaving things alone—and government intervention. Today, it's common for the U.S. government to intervene in the operation of the economic system. For example, government exerts influence on the food and pharmaceutical industries through the Food and Drug Administration, which protects consumers by preventing unsafe or mislabeled products from reaching the market.

To appreciate how businesses operate, we must first get an idea of how prices are set in competitive markets. Thus, [Section 1.4 "Perfect Competition and Supply and Demand"](#) begins by describing how markets establish prices in an environment of *perfect competition*.

KEY TAKEAWAYS

- **Economics** is the study of the production, distribution, and consumption of goods and services.
- Economists address these three questions: (1) What goods and services should be produced to meet consumer needs? (2) How should they be produced, and who should produce them? (3) Who should receive goods and services?
- The answers to these questions depend on a country's **economic system**. The primary economic systems that exist today are planned and free market systems.
- In a planned system, such as **communism** and **socialism**, the government exerts control over the production and distribution of all or some goods and services.
- In a **free market system**, also known as **capitalism**, business is conducted with only limited government involvement. Competition determines what goods and services are produced, how they are produced, and for whom.

EXERCISES

1. If you started a business that made surfboards, what factors of production would you need to make your product? Where would you get them? Where would you find the money you'd need to pay for additional resources?
2. Which three key questions do economists try to answer? Will answers to these questions differ, depending on whether they're working in the United States or in Cuba? Explain your answer.

1.4 Perfect Competition and Supply and Demand

LEARNING OBJECTIVE

1. Describe perfect competition, and explain how supply and demand interact to set prices in a free market system.

Under a mixed economy, such as we have in the United States, businesses make decisions about which goods to produce or services to offer and how they are priced. Because there are many businesses making goods or providing services, customers can choose among a wide array of products. The competition for sales among businesses is a vital part of our economic system. Economists have identified four types of competition—*perfect competition*, *monopolistic competition*, *oligopoly*, and *monopoly*. We'll introduce the first of these—perfect competition—in this section and cover the remaining three in the following section.

Perfect Competition

Perfect competition¹⁹ exists when there are many consumers buying a standardized product from numerous small businesses. Because no seller is big enough or influential enough to affect price, sellers and buyers accept the going price. For example, when a commercial fisher brings his fish to the local market, he has little control over the price he gets and must accept the going market price.

Figure 1.5



Produce, like these apples, is a standardized product available from numerous businesses.

The Basics of Supply and Demand

To appreciate how perfect competition works, we need to understand how buyers and sellers interact in a market to set prices. In a market characterized by perfect competition, price is determined through the mechanisms of *supply* and *demand*. Prices are influenced both by the supply of products from sellers and by the demand for products by buyers.

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19. Market in which many consumers buy standardized products from numerous small businesses.

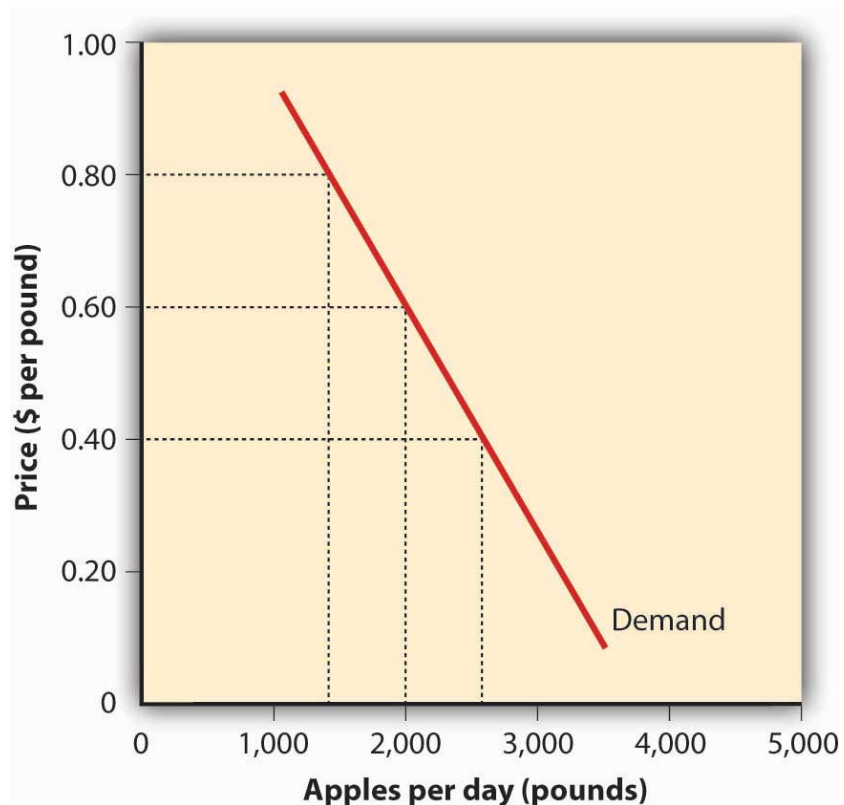
To illustrate this concept, let's create a *supply and demand schedule* for one particular good sold at one point in time. Then we'll define *demand* and create a *demand curve*

and define *supply* and create a *supply curve*. Finally, we'll see how supply and demand interact to create an *equilibrium price*—the price at which buyers are willing to purchase the amount that sellers are willing to sell.

Demand and the Demand Curve

Demand²⁰ is the quantity of a product that buyers are willing to purchase at various prices. The quantity of a product that people are willing to buy depends on its price. You're typically willing to buy *less* of a product when prices *rise* and *more* of a product when prices *fall*. Generally speaking, we find products more attractive at lower prices, and we buy more at lower prices because our income goes further.

Figure 1.6 The Demand Curve



20. Quantity of a product that buyers are willing to purchase at various prices.

21. Graph showing the quantity of a product that will be bought at certain prices.

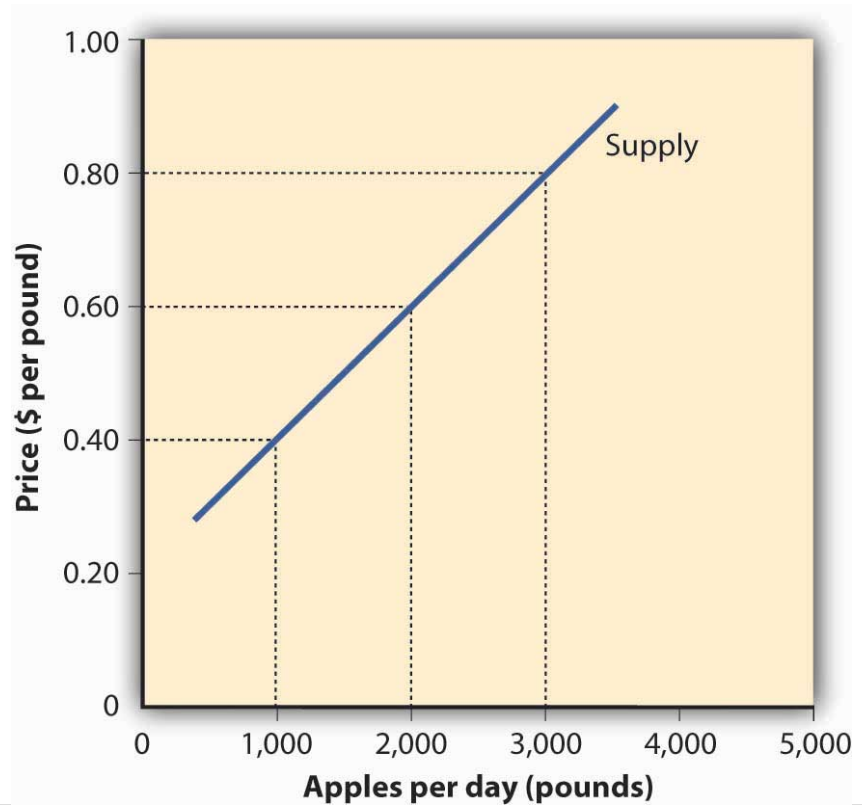
Using this logic, we can construct a **demand curve**²¹ that shows the quantity of a product that will be demanded at different prices. Let's assume that the diagram in [Figure 1.6 "The Demand Curve"](#) represents the daily price and quantity of apples sold by farmers at a local market. Note that as the price of apples goes down, buyers' demand goes up. Thus, if a pound of apples sells for \$0.80, buyers will be willing to purchase only fifteen hundred pounds per day. But if apples cost only

\$0.60 a pound, buyers will be willing to purchase two thousand pounds. At \$0.40 a pound, buyers will be willing to purchase twenty-five hundred pounds.

Supply and the Supply Curve

Supply²² is the quantity of a product that sellers are willing to sell at various prices. The quantity of a product that a business is willing to sell depends on its price. Businesses are *more* willing to sell a product when the price *rises* and *less* willing to sell it when prices *fall*. Again, this fact makes sense: businesses are set up to make profits, and there are larger profits to be made when prices are high.

Figure 1.7 The Supply Curve



Now we can construct a **supply curve**²³ that shows the quantity of apples that farmers would be willing to sell at different prices, regardless of demand. As you can see in [Figure 1.7 "The Supply Curve"](#), the supply curve goes in the opposite direction from the demand curve: as prices rise, the quantity of apples that farmers are willing to sell also goes up. The supply curve shows that farmers are willing to sell only a thousand pounds of apples when the price is \$0.40 a pound, two thousand pounds when the price is \$0.60, and three thousand pounds when the price is \$0.80.

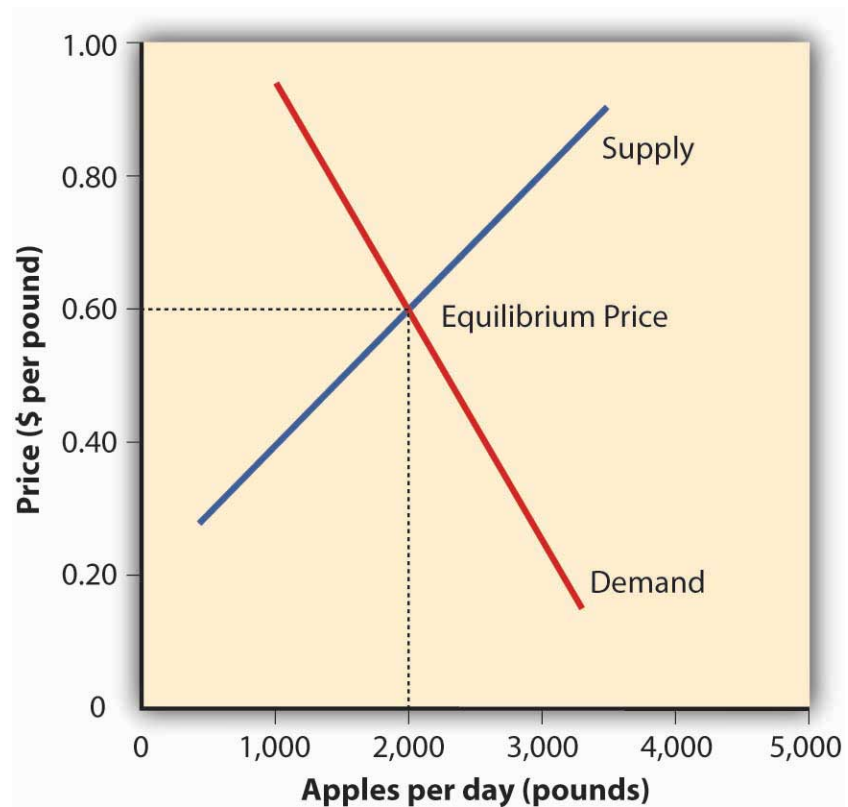
22. Quantity of a product that sellers are willing to sell at various prices.

23. Graph showing the quantity of a product that will be offered for sale at certain prices.

Equilibrium Price

We can now see how the market mechanism works under perfect competition. We do this by plotting both the supply curve and the demand curve on one graph, as we've done in [Figure 1.8 "The Equilibrium Price"](#). The point at which the two curves intersect is the **equilibrium price**²⁴. At this point, buyers' demand for apples and sellers' supply of apples is in equilibrium.

Figure 1.8 *The Equilibrium Price*



You can see in [Figure 1.8 "The Equilibrium Price"](#) that the supply and demand curves intersect at the price of \$0.60 and quantity of two thousand pounds. Thus, \$0.60 is the equilibrium price: at this price, the quantity of apples demanded by buyers equals the quantity of apples that farmers are willing to supply. If a farmer tries to charge more than \$0.60 for a pound of apples, he won't sell very many and his profits will go down. If, on the other hand, a farmer tries to charge less than the equilibrium price of \$0.60 a pound, he will sell more apples but his profit per pound will be less than at the equilibrium price.

24. Price at which buyers are willing to buy exactly the amount that sellers are willing to sell.

What have we learned in this discussion? We've learned that without outside influences, markets in an environment of perfect competition will arrive at an

equilibrium point at which both buyers and sellers are satisfied. But we must be aware that this is a very simplistic example. Things are much more complex in the real world. For one thing, markets rarely operate without outside influences. Sometimes, sellers supply more of a product than buyers are willing to purchase; in that case, there's a *surplus*. Sometimes, they don't produce enough of a product to satisfy demand; then we have a *shortage*.

Circumstances also have a habit of changing. What would happen, for example, if income rose and buyers were willing to pay more for apples? The demand curve would change, resulting in an increase in equilibrium price. This outcome makes intuitive sense: as demand increases, prices will go up. What would happen if apple crops were larger than expected because of favorable weather conditions? Farmers might be willing to sell apples at lower prices. If so, the supply curve would shift, resulting in another change in equilibrium price: the increase in supply would bring down prices.

KEY TAKEAWAYS

- In a free market system, buyers and sellers interact in a market to set prices.
- When the market is characterized by **perfect competition**, many small companies sell identical products. Because no company is large enough to control price, each simply accepts the market price. The price is determined by supply and demand.
- **Supply** is the quantity of a product that sellers are willing to sell at various prices.
- **Demand** is the quantity of a product that buyers are willing to purchase at various prices.
- The quantity of a product that people will buy depends on its price: they'll buy more when the price is low and less when it's high.
- Price also influences the quantity of a product that producers are willing to supply: they'll sell more of a product when prices are high and less when they're low.
- In a competitive market, the decisions of buyers and sellers interact until the market reaches an **equilibrium price**—the price at which buyers are willing to buy the same amount that sellers are willing to sell.

EXERCISE

(AACSB) Analysis

You just ran across three interesting statistics: (1) the world's current supply of oil is estimated to be 1.3 trillion barrels; (2) the worldwide use of oil is thirty billion barrels a year; and (3) at this rate of consumption, we'll run out of oil in forty-three years. Overcoming an initial sense of impending catastrophe, you remember the discussion of supply and demand in this chapter and realize that things aren't as simple as they seem. After all, many factors affect both the supply of oil and the demand for products made from it, such as gasoline. These factors will influence when (and if) the world runs out of oil. Answer the following questions, and provide explanations for your answers:

- a. What's the major factor that affects the *supply* of oil? (*Hint*: It's the same major factor affecting the *demand* for oil.)
- b. If producers find additional oil reserves, what will happen to the price of oil?
- c. If producers must extract oil from more-costly wells, what will happen to the price that you pay to fill up your gas tank?
- d. If China's economy continues to expand rapidly, what will happen to the price of oil?
- e. If drivers in the United States start favoring fuel-efficient cars over SUVs, will gas be cheaper or more expensive?
- f. In your opinion, will oil producers be able to supply enough oil to meet the increasing demand for oil-related products, such as gasoline?

1.5 Monopolistic Competition, Oligopoly, and Monopoly

LEARNING OBJECTIVE

1. Describe monopolistic competition, oligopoly, and monopoly.

Economists have identified four types of competition—*perfect competition*, *monopolistic competition*, *oligopoly*, and *monopoly*. Perfect competition was discussed in the last section; we'll cover the remaining three types of competition here.

Monopolistic Competition

In **monopolistic competition**²⁵, we still have many sellers (as we had under perfect competition). Now, however, they don't sell identical products. Instead, they sell *differentiated* products—products that differ somewhat, or are *perceived* to differ, even though they serve a similar purpose. Products can be differentiated in a number of ways, including quality, style, convenience, location, and brand name. Some people prefer Coke over Pepsi, even though the two products are quite similar. But what if there was a substantial price difference between the two? In that case, buyers could be persuaded to switch from one to the other. Thus, if Coke has a big promotional sale at a supermarket chain, some Pepsi drinkers might switch (at least temporarily).

How is product differentiation accomplished? Sometimes, it's simply geographical; you probably buy gasoline at the station closest to your home regardless of the brand. At other times, perceived differences between products are promoted by advertising designed to convince consumers that one product is different from another—and better than it. Regardless of customer loyalty to a product, however, if its price goes too high, the seller will lose business to a competitor. Under monopolistic competition, therefore, companies have only limited control over price.

Oligopoly

Oligopoly²⁶ means few sellers. In an oligopolistic market, each seller supplies a large portion of all the products sold in the marketplace. In addition, because the cost of starting a business in an oligopolistic industry is usually high, the number of firms entering it is low.

25. Market in which many sellers supply differentiated products.

26. Market in which a few sellers supply a large portion of all the products sold in the marketplace.

Companies in oligopolistic industries include such large-scale enterprises as automobile companies and airlines. As large firms supplying a sizable portion of a market, these companies have some control over the prices they charge. But there's a catch: because products are fairly similar, when one company lowers prices, others are often forced to follow suit to remain competitive. You see this practice all the time in the airline industry: When American Airlines announces a fare decrease, Continental, United Airlines, and others do likewise. When one automaker offers a special deal, its competitors usually come up with similar promotions.

Monopoly

In terms of the number of sellers and degree of competition, monopolies lie at the opposite end of the spectrum from perfect competition. In perfect competition, there are many small companies, none of which can control prices; they simply accept the market price determined by supply and demand. In a **monopoly**²⁷, however, there's only one seller in the market. The market could be a geographical area, such as a city or a regional area, and doesn't necessarily have to be an entire country.

There are few monopolies in the United States because the government limits them. Most fall into one of two categories: *natural* and *legal*. **Natural monopolies**²⁸ include public utilities, such as electricity and gas suppliers. Such enterprises require huge investments, and it would be inefficient to duplicate the products that they provide. They inhibit competition, but they're legal because they're important to society. In exchange for the right to conduct business without competition, they're regulated. For instance, they can't charge whatever prices they want, but they must adhere to government-controlled prices. As a rule, they're required to serve all customers, even if doing so isn't cost efficient.

A **legal monopoly**²⁹ arises when a company receives a patent giving it exclusive use of an invented product or process. Patents are issued for a limited time, generally twenty years. United States Patent and Trademark Office, *General Information Concerning Patents*, April 15, 2006, <http://www.uspto.gov/web/offices/pac/doc/general/index.html#laws> (accessed January 21, 2012). During this period, other companies can't use the invented product or process without permission from the patent holder. Patents allow companies a certain period to recover the heavy costs of researching and developing products and technologies. A classic example of a company that enjoyed a patent-based legal monopoly is Polaroid, which for years held exclusive ownership of instant-film technology. Mary Bellis, "Inventors-Edwin Land-Polaroid Photography-Instant Photography/Patents," April 15, 2006, <http://inventors.about.com/library/inventors/blpolaroid.htm> (accessed January 21, 2012). Polaroid priced the product high enough to recoup, over time, the high

27. Market in which there is only one seller supplying products at regulated prices.

28. Monopoly in which, because of the industry's importance to society, one seller is permitted to supply products without competition.

29. Monopoly in which one seller supplies a product or technology to which it holds a patent.

cost of bringing it to market. Without competition, in other words, it enjoyed a monopolistic position in regard to pricing.

KEY TAKEAWAYS

- There are four types of competition in a free market system: perfect competition, monopolistic competition, oligopoly, and monopoly.
- Under **monopolistic competition**, many sellers offer differentiated products—products that differ slightly but serve similar purposes. By making consumers aware of product differences, sellers exert some control over price.
- In an **oligopoly**, a few sellers supply a sizable portion of products in the market. They exert some control over price, but because their products are similar, when one company lowers prices, the others follow.
- In a **monopoly**, there is only one seller in the market. The market could be a geographical area, such as a city or a regional area, and does not necessarily have to be an entire country. The single seller is able to control prices.
- Most monopolies fall into one of two categories: *natural* and *legal*.
- **Natural monopolies** include public utilities, such as electricity and gas suppliers. They inhibit competition, but they're legal because they're important to society.
- A **legal monopoly** arises when a company receives a patent giving it exclusive use of an invented product or process for a limited time, generally twenty years.

EXERCISE

Identify the four types of competition, explain the differences among them, and provide two examples of each. (Use examples different from those given in the text.)

1.6 Measuring the Health of the Economy

LEARNING OBJECTIVE

1. Understand the criteria used to assess the status of the economy.

Every day, we are bombarded with economic news. We're told that the economy is struggling, unemployment is high, home prices are low, and consumer confidence is down. As a student learning about business, and later as a business manager, you need to understand the nature of the U.S. economy and the terminology that we use to describe it. You need to have some idea of where the economy is heading, and you need to know something about the government's role in influencing its direction.

Economic Goals

All the world's economies share three main goals:

1. Growth
2. High employment
3. Price stability

Let's take a closer look at each of these goals, both to find out what they mean and to show how we determine whether they're being met.

Economic Growth

One purpose of an economy is to provide people with goods and services—cars, computers, video games, houses, rock concerts, fast food, amusement parks. One way in which economists measure the performance of an economy is by looking at a widely used measure of total output called **gross domestic product (GDP)**³⁰. GDP is defined as the market value of all goods and services produced by the economy in a given year. In the United States, it's calculated by the Department of Commerce. GDP includes only those goods and services produced domestically; goods produced outside the country are excluded. GDP also includes only those goods and services that are produced for the final user; intermediate products are excluded. For example, the silicon chip that goes into a computer (an intermediate product) would not count, even though the finished computer would.

30. Measure of the market value of all goods and services produced by a nation's economy in a given year.

By itself, GDP doesn't necessarily tell us much about the state of the economy. But *change* in GDP does. If GDP (after adjusting for inflation) goes up, the economy is growing. If it goes down, the economy is contracting.

The Business Cycle

The economic ups and downs resulting from expansion and contraction constitute the **business cycle**³¹. A typical cycle runs from three to five years but could last much longer. Though typically irregular, a cycle can be divided into four general phases of *prosperity*, *recession*, *depression* (which the cycle generally skips), and *recovery*:

- During *prosperity*, the economy expands, unemployment is low, incomes rise, and consumers buy more products. Businesses respond by increasing production and offering new and better products.
- Eventually, however, things slow down. GDP decreases, unemployment rises, and because people have less money to spend, business revenues decline. This slowdown in economic activity is called a **recession**³². Economists often say that we're entering a recession when GDP goes down for two consecutive quarters.
- Generally, a recession is followed by a *recovery* in which the economy starts growing again.
- If, however, a recession lasts a long time (perhaps a decade or so), while unemployment remains very high and production is severely curtailed, the economy could sink into a **depression**³³. Though not impossible, it's unlikely that the United States will experience another severe depression like that of the 1930s. The federal government has a number of economic tools (some of which we'll discuss shortly) with which to fight any threat of a depression.

Figure 1.9



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31. Pattern of expansion and contraction in an economy.

32. Economic slowdown measured by a decline in gross domestic productivity.

33. Severe, long-lasting recession.

Full Employment

To keep the economy going strong, people must spend money on goods and services. A reduction in personal expenditures for things like food, clothing, appliances, automobiles, housing, and medical care could severely reduce GDP and

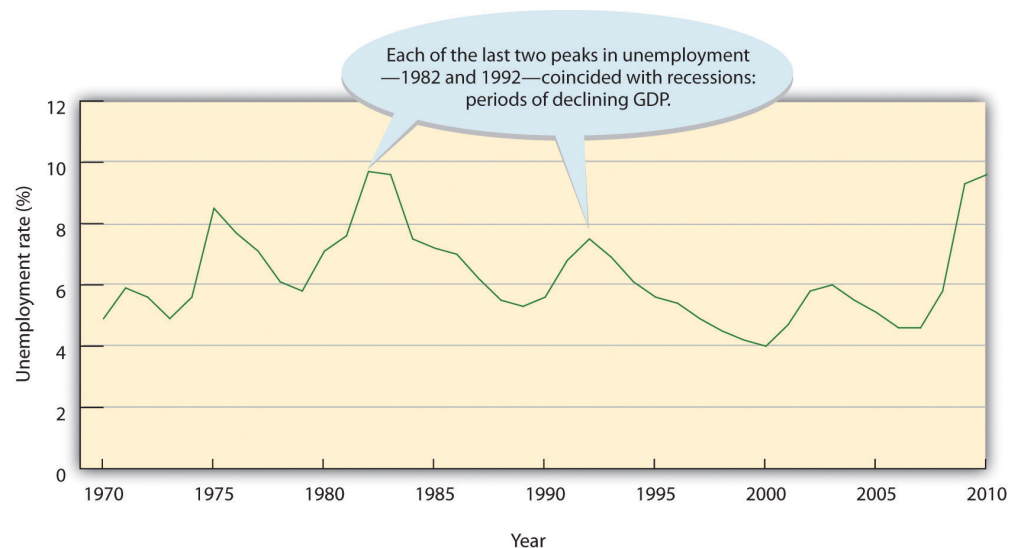
weaken the economy. Because most people earn their spending money by working, an important goal of all economies is making jobs available to everyone who wants one. In principle, **full employment**³⁴ occurs when everyone who wants to work has a job. In practice, we say that we have “full employment” when about 95 percent of those wanting to work are employed.

The Unemployment Rate

The U.S. Department of Labor tracks unemployment and reports the **unemployment rate**³⁵: the percentage of the labor force that’s unemployed and actively seeking work. The unemployment rate is an important measure of economic health. It goes up during recessionary periods because companies are reluctant to hire workers when demand for goods and services is low. Conversely, it goes down when the economy is expanding and there is high demand for products and workers to supply them.

Figure 1.10 "The U.S. Unemployment Rate, 1970–2010" traces the U.S. unemployment rate between 1970 and 2010. If you want to know the current unemployment rate, go to the CNNMoney Web site (CNNMoney.com) and click on “Economy” and then on “Job Growth.”

Figure 1.10 The U.S. Unemployment Rate, 1970–2010



34. Condition under which about 95 percent of those who want to work are employed.

35. Percentage of the total labor force that’s currently unemployed and actively seeking work.

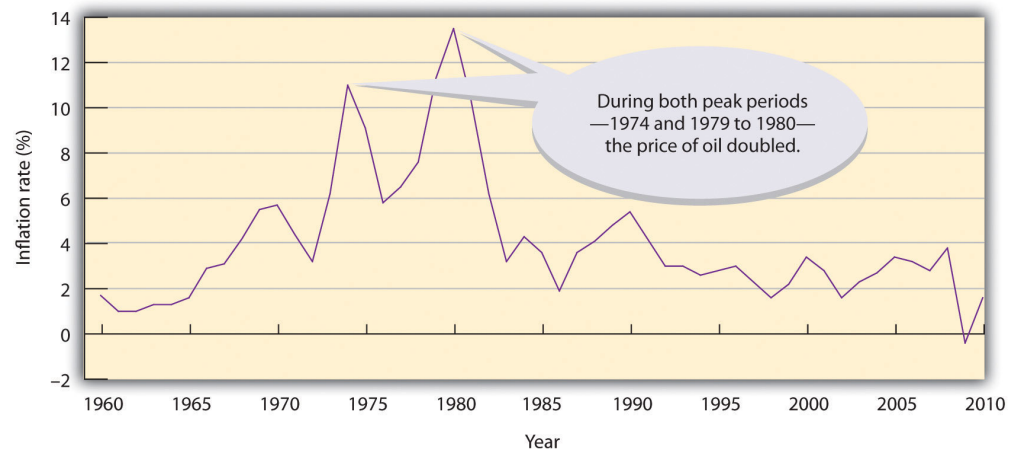
36. Conditions under which the prices for products remain fairly constant.

Price Stability

A third major goal of all economies is maintaining **price stability**³⁶. Price stability occurs when the average of the prices for goods and services either doesn’t change

or changes very little. Rising prices are troublesome for both individuals and businesses. For individuals, rising prices mean you have to pay more for the things you need. For businesses, rising prices mean higher costs, and, at least in the short run, businesses might have trouble passing on higher costs to consumers. When the overall price level goes up, we have **inflation**³⁷. Figure 1.11 "The U.S. Inflation Rate, 1960–2010" shows inflationary trends in the U.S. economy since 1960. When the price level goes down (which rarely happens), we have **deflation**³⁸.

Figure 1.11 The U.S. Inflation Rate, 1960–2010



The Consumer Price Index

The most widely publicized measure of inflation is the **consumer price index (CPI)**³⁹, which is reported monthly by the Bureau of Labor Statistics. The CPI measures the rate of inflation by determining price changes of a hypothetical basket of goods, such as food, housing, clothing, medical care, appliances, automobiles, and so forth, bought by a typical household.

The CPI base period is 1982 to 1984, which has been given an average value of 100. Table 1.1 "Selected CPI Values, 1950–2010" gives CPI values computed for selected years. The CPI value for 1950, for instance, is 24. This means that \$1 of typical purchases in 1982 through 1984 would have cost \$0.24 in 1950. Conversely, you would have needed \$2.18 to purchase the same \$1 worth of typical goods in 2010. The difference registers the effect of inflation. In fact, that’s what an *inflation rate* is—the *percentage change in a price index*.

You can find out the current CPI by going to the CNNMoney Web site (CNNMoney.com) and click on “Economy” and then on “Inflation (CPI).”

- 37. Rise in the overall price level.
- 38. Decrease in overall price level.
- 39. Index that measures inflation by measuring the prices of goods purchased by a typical consumer.

Table 1.1 Selected CPI Values, 1950–2010

Year	1950	1960	1970	1980	1990	2000	2001	2002
CPI	24.1	29.1	38.8	82.4	130.7	172.2	177.1	179.9
Year	2003	2004	2005	2006	2007	2008	2009	2010
CPI	184.0	188.9	195.3	201.6	207.3	215.3	214.15	218.1

Economic Forecasting

In the previous section, we introduced several measures that economists use to assess the performance of the economy at a given time. By looking at changes in GDP, for instance, we can see whether the economy is growing. The CPI allows us to gauge inflation. These measures help us understand where the economy stands today. But what if we want to get a sense of where it’s headed in the future? To a certain extent, we can forecast future economic trends by analyzing several leading economic indicators.

Economic Indicators

An **economic indicator**⁴⁰ is a statistic that provides valuable information about the economy. There’s no shortage of economic indicators, and trying to follow them all would be an overwhelming task. Thus, economists and businesspeople track only a select few, including those that we’ll now discuss.

Lagging and Leading Indicators

Statistics that report the status of the economy a few months in the past are called **lagging economic indicators**⁴¹. One such indicator is *average length of unemployment*. If unemployed workers have remained out of work for a long time, we may infer that the economy has been slow. Indicators that predict the status of the economy three to twelve months in the future are called **leading economic indicators**⁴². If such an indicator rises, the economy is likely to expand in the coming year. If it falls, the economy is likely to contract.

40. Statistic that provides information about trends in the economy.

41. Statistical data that measure economic trends after the overall economy has changed.

42. Statistical data that predict the status of the economy three to twelve months in the future.

To predict where the economy is headed, we obviously must examine several leading indicators. It’s also helpful to look at indicators from various sectors of the economy—labor, manufacturing, and housing. One useful indicator of the outlook for future jobs is the number of new *claims for unemployment insurance*. This measure tells us how many people recently lost their jobs. If it’s rising, it signals trouble

ahead because unemployed consumers can't buy as many goods and services as they could if they had paychecks.

To gauge the level of goods to be produced in the future (which will translate into future sales), economists look at a statistic called *average weekly manufacturing hours*. This measure tells us the average number of hours worked per week by production workers in manufacturing industries. If it's on the rise, the economy will probably improve. For assessing the strength of the housing market, *building permits* is often a good indicator. An increase in this statistic—which tells us how many new housing units are being built—indicates that the economy is improving. Why? Because increased building brings money into the economy not only through new home sales but also through sales of furniture and appliances to furnish them.

Finally, if you want a measure that combines all these economic indicators, as well as others, a private research firm called the Conference Board publishes a U.S. *leading index*. To get an idea of what leading economic indicators are telling us about the state of the economy today, go to the Conference Board site at <http://www.conference-board.org> and click on “U.S. Indicators” and then “leading economic index.”

Consumer Confidence Index

The Conference Board also publishes a **consumer confidence index**⁴³ based on results of a monthly survey of five thousand U.S. households. The survey gathers consumers' opinions on the health of the economy and their plans for future purchases. It's often a good indicator of consumers' future buying intent. For information on current consumer confidence, go to the Conference Board site at <http://www.conference-board.org> and click on “consumer confidence.”

43. Measure of optimism that consumers express about the economy as they go about their everyday lives.

KEY TAKEAWAYS

- All economies share three goals: growth, high employment, and price stability.
- *Growth*. An economy provides people with goods and services, and economists measure its performance by studying the **gross domestic product (GDP)**—the market value of all goods and services produced by the economy in a given year.
- If GDP goes up, the economy is growing; if it goes down, the economy is contracting.
- *High employment*. Because most people earn their money by working, a goal of all economies is making jobs available to everyone who wants one.
- The U.S. government reports an **unemployment rate**—the percentage of the labor force that’s unemployed and actively seeking work.
- The unemployment rate goes up during recessionary periods and down when the economy is expanding.
- *Price stability*. When the average prices of products either don’t change or change very little, **price stability** occurs.
- When overall prices go up, we have **inflation**; when they go down, we have **deflation**.
- The **consumer price index (CPI)** measures inflation by determining the change in prices of a hypothetical basket of goods bought by a typical household.
- To get a sense of where the economy is headed in the future, we use statistics called **economic indicators**.
- Indicators that, like *average length of unemployment*, report the status of the economy a few months in the past are **lagging economic indicators**.
- Those, like *new claims for unemployment insurance*, that predict the status of the economy three to twelve months in the future are **leading economic indicators**.

EXERCISES

1. (AACSB) Analysis

Congratulations! You entered a sweepstakes and won a fantastic prize: a trip around the world. There's only one catch: you have to study the economy of each country (from the list below) that you visit, and identify the current phase of its business cycle. Be sure to explain your responses.

- *Country 1.* While the landscape is beautiful and the weather is superb, a lot of people seem unhappy. Business is slow, and production has dropped steadily for the past six months. Revenues are down, companies are laying off workers, and there's less money around to spend.
 - *Country 2.* Here, people are happily busy. Almost everyone has a job and makes a good income. They spend freely, and businesses respond by offering a steady outflow of new products.
 - *Country 3.* Citizens of this country report that, for a while, life had been tough; lots of people were jobless, and money was tight. But things are getting much better. Workers are being called back to their jobs, production is improving, and people are spending again.
 - *Country 4.* This place makes you so depressed that you can't wait to get back home. People seem defeated, mostly because many have been without jobs for a long time. Lots of businesses have closed down, and those that have managed to stay open are operating at reduced capacity.
2. What are the three main economic goals of most economies, including the economy of the United States? What economic measures do we examine to determine whether or how well these goals are being met?

1.7 Government's Role in Managing the Economy

LEARNING OBJECTIVE

1. Discuss the government's role in managing the economy.

In every country, the government takes steps to help the economy achieve the goals of growth, full employment, and price stability. In the United States, the government influences economic activity through two approaches: monetary policy and fiscal policy. Through **monetary policy**⁴⁴, the government exerts its power to regulate the money supply and level of interest rates. Through **fiscal policy**⁴⁵, it uses its power to tax and to spend.

Monetary Policy

Monetary policy is exercised by the Federal Reserve System (“the Fed”), which is empowered to take various actions that decrease or increase the money supply and raise or lower short-term interest rates, making it harder or easier to borrow money. When the Fed believes that inflation is a problem, it will use *contractionary policy* to decrease the money supply and raise interest rates. When rates are higher, borrowers have to pay more for the money they borrow, and banks are more selective in making loans. Because money is “tighter”—more expensive to borrow—demand for goods and services will go down, and so will prices. In any case, that’s the theory.

To counter a recession, the Fed uses *expansionary policy* to increase the money supply and reduce interest rates. With lower interest rates, it’s cheaper to borrow money, and banks are more willing to lend it. We then say that money is “easy.” Attractive interest rates encourage businesses to borrow money to expand production and encourage consumers to buy more goods and services. In theory, both sets of actions will help the economy escape or come out of a recession.

Figure 1.12



The Fed will typically tighten or decrease the money supply during inflationary periods,

44. Efforts exerted by the Federal Reserve System (“the Fed”) to regulate the nation’s money supply.

45. Governmental use of taxation and spending to influence economic conditions.

Fiscal Policy

Fiscal policy relies on the government's powers of spending and taxation. Both taxation and government spending can be used to reduce or increase the total supply of money in the economy—the total amount, in other words, that businesses and consumers have to spend. When the country is in a recession, the appropriate policy is to increase spending, reduce taxes, or both. Such expansionary actions will put more money in the hands of businesses and consumers, encouraging businesses to expand and consumers to buy more goods and services. When the economy is experiencing inflation, the opposite policy is adopted: the government will decrease spending or increase taxes, or both. Because such contractionary measures reduce spending by businesses and consumers, prices come down and inflation eases.

making it harder to borrow money.

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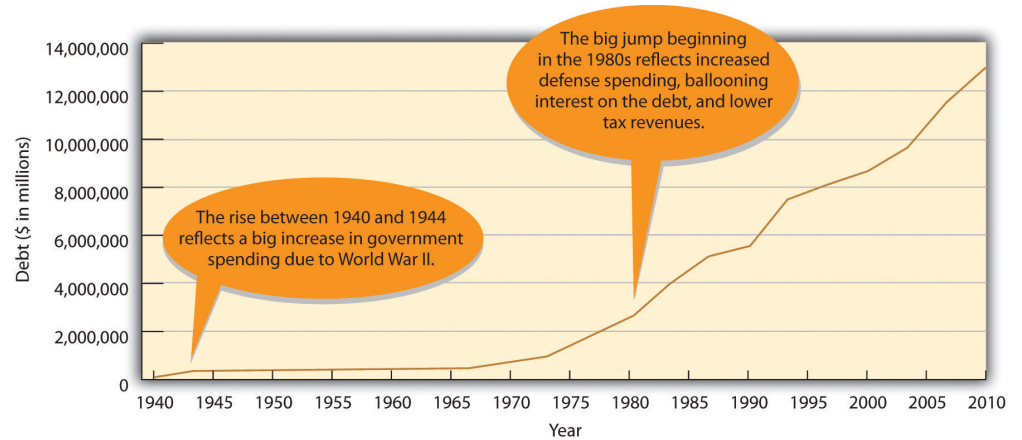
The National Debt

If, in any given year, the government takes in more money (through taxes) than it spends on goods and services (for things such as defense, transportation, and social services), the result is a budget *surplus*. If, on the other hand, the government spends more than it takes in, we have a budget *deficit* (which the government pays off by borrowing through the issuance of Treasury bonds). Historically, deficits have occurred much more often than surpluses; typically, the government spends more than it takes in. Consequently, the U.S. government now has a total **national debt**⁴⁶ of more than \$14 *trillion*.

As you can see in [Figure 1.13 "The U.S. National Debt, 1940–2010"](#), this number has risen dramatically in the last sixty-five years. The significant jump that starts in the 1980s reflects several factors: a big increase in government spending (especially on defense), a substantial rise in interest payments on the debt, and lower tax rates. As of this writing, your share is \$46,146.21. If you want to see what the national debt is today—and what your current share is—go on the Web to the U.S. National Debt Clock (http://www.brillig.com/debt_clock).

46. Total amount of money owed by the federal government.

Figure 1.13 The U.S. National Debt, 1940–2010



Macroeconomics and Microeconomics

In the preceding discussion, we've touched on two main areas in the field of economics: (1) *macroeconomics*, or the study of the economy as a whole, and (2) *microeconomics*, or the study of the economic choices made by individual consumers or businesses. Macroeconomics examines the economy-wide effect of inflation, while microeconomics considers such decisions as the price you're willing to pay to go to college. Macroeconomics investigates overall trends in imports and exports, while microeconomics explains the price that teenagers are willing to pay for concert tickets. Though they are often regarded as separate branches of economics, we can gain a richer understanding of the economy by studying issues from both perspectives. As we've seen in this chapter, for instance, you can better understand the overall level of activity in an economy (a macro issue) through an understanding of supply and demand (a micro issue).

KEY TAKEAWAYS

- The U.S. government uses two types of policies—monetary policy and fiscal policy—to influence economic performance. Both have the same purpose: to help the economy achieve growth, full employment, and price stability.
- **Monetary policy** is used to control the money supply and interest rates.
- It's exercised through an independent government agency called the Federal Reserve System (“the Fed”), which has the power to control the money supply and interest rates.
- When the Fed believes that inflation is a problem, it will use *contractionary policy* to decrease the money supply and raise interest rates. To counter a recession, it will use *expansionary policy* to increase the money supply and reduce interest rates.
- **Fiscal policy** uses the government's power to spend and tax.
- When the country is in a recession, the government will increase spending, reduce taxes, or do both to expand the economy.
- When we're experiencing inflation, the government will decrease spending or increase taxes, or both.
- When the government takes in more money in a given year (through taxes) than it spends, the result is a *surplus*.
- When the opposite happens—government spends more money than it takes in—we have a *deficit*.
- The cumulative sum of deficits is the **national debt**—the total amount of money owed by the federal government.

EXERCISES

1. Let's say that you're the Fed chairperson and that the country is in a recession. What actions should the Fed take to pull the country out of the recession? What would you advise government officials to do to improve the economy? Justify your recommendations.
2. Browsing through your college's catalog, you notice that all business majors must take two economics courses: macroeconomics and microeconomics. Explain what's covered in each of these courses. In what ways will the things you learn in each course help you in the future?

1.8 Cases and Problems

LEARNING ON THE WEB (AACSB)

The “Economy” section of the CNNMoney Web site provides current information on a number of economic indicators. Go to <http://money.cnn.com> and click on “Economy” and then on “Jobs,” and find answers to the following questions:

1. You read in the chapter that an important goal of all economies is to make jobs available to everyone who wants one. Review the CNNMoney discussion on job growth and then answer the following questions:
 - a. Is the current level of unemployment rising or falling?
 - b. What do economists expect will happen to unemployment rates in the near future?
 - c. Is the current level of unemployment a burden or an asset to the economy? In what ways?
2. Do you remember the first dollar you earned? Maybe you earned it delivering newspapers, shoveling snow, mowing lawns, or babysitting. How much do you think that dollar is worth today? Go to the WestEgg site at <http://www.westegg.com/inflation> and find the answer to this question. After determining the current value of your first dollar, explain how the calculator was created. (*Hint*: Apply what you know about CPI.)

CAREER OPPORTUNITIES

Is a Career in Economics for You?

Are you wondering what a career in economics would be like? Go to the U.S. Department of Labor Web site (<http://www.bls.gov/oco/ocos055.htm>) and review the occupational outlook for economists. Look for answers to the following questions:

1. What issues interest economists?
2. What kinds of jobs do government economists perform? What about those who work in private industry? In education?
3. What educational background and training is needed for these jobs?
4. What is the current job outlook for economists?
5. What is the entry-level salary for an economist with a bachelor's degree? With a master's degree?

ETHICS ANGLE (AACSB)

How Much Is That CD in the Window?

The early 1990s were a good time to buy CDs, mainly because discounters such as Wal-Mart and Best Buy were accumulating customers by dropping prices from \$15 to \$10. They were losing money, but they figured that the policy still made good business sense. Why? They reasoned that while customers were in the store to shop for CDs, they'd find other, more profitable products.

The policy was a windfall for CD buyers, but a real problem for traditional music retailers such as Tower Records. With discounters slashing prices, CD buyers were no longer willing to pay the prices asked by traditional music retailers. Sales plummeted and companies went out of business.

Ultimately, the discounters' strategy worked: stores such as Wal-Mart and Best Buy gained customers who once bought CDs at stores like Tower Records.

Let's pause at this point to answer the following questions:

1. Does selling a product at below cost make business sense?
2. Whom does it hurt? Whom does it help?
3. Is it ethical?

Let's continue and find out how traditional music retailers responded to this situation.

They weren't happy, and neither were the record companies. Both parties worried that traditional retailers would put pressure on them to reduce the price that they charged for CDs so that retailers could lower their prices and compete with discounters. The record companies didn't want to lower prices. They just wanted things to return to "normal"—to the world in which CDs sold for \$15 each.

Most of the big record companies and several traditional music retailers got together and made a deal affecting every store that sold CDs. The record companies agreed with retail chains and other CD outlets to charge a minimum advertised price for CDs. Any retailer who broke ranks by

advertising below-price CDs would incur substantial financial penalties. Naturally, CD prices went up.

Now, think about the following:

1. Does the deal made between the record companies and traditional retailers make business sense?
2. Whom does it hurt? Whom does it help?
3. Is it ethical?
4. Is it legal?

TEAM-BUILDING SKILLS (AACSB)

Get together in groups of four selected by your instructor and pick any three items from the following list:

- Pint of milk
- Gallon of gas
- Roundtrip airline ticket between Boston and San Francisco
- Large pizza
- Monthly cost of an Internet connection
- CD by a particular musician
- Two-day DVD rental
- Particular brand of DVD player
- Quarter-pound burger

Outside of class, each member of the team should check the prices of the three items, using his or her own sources. At the next class meeting, get together and compare the prices found by team members. Based on your findings, answer the following questions as a group:

1. Are the prices of given products similar, or do they vary?
2. Why do the prices of some products vary while those of others are similar?
3. Can any price differences be explained by applying the concepts of supply and demand or types of competition?

THE GLOBAL VIEW (AACSB)

Life Is Good in France (if You Have *Le Job*)

A strong economy requires that people have money to spend on goods and services. Because most people earn their money by working, an important goal of all economies is making jobs available to everyone who wants one. A country has “full employment” when 95 percent of those wanting work are employed. Unfortunately, not all countries achieve this goal of full employment. France, for example, often has a 10 percent unemployment rate overall and a 20 percent unemployment rate among young people.

Does this mean that France isn’t trying as hard as the United States to achieve full employment? A lot of people in France would say yes.

Let’s take a quick trip to France to see what’s going on economically. The day is March 19, 2006, and more than a million people are marching through the streets to protest a proposed new employment law that would make it easier for companies to lay off workers under the age of twenty-six during their first two years of employment. Granted, the plan doesn’t sound terribly youth-friendly, but, as usual, economic issues are never as clear-cut as they seem (or as we’d like them to be).

To gain some further insight into what’s going on in France, go to a *BusinessWeek* Web site (http://www.businessweek.com/globalbiz/content/mar2006/gb20060321_896473.htm) and read the article “Job Security Ignites Debate in France.” Then answer the following questions:

1. Why does the French government support the so-called First Employment Contract? Who’s supposed to be helped by the law?
2. Which two groups are most vocal in protesting the law? Why?
3. If you were a long-time worker at a French company, would you support the new law? Why, or why not?
4. If you were a young French person who had just graduated from college and were looking for your first job, would you support the law? Why, or why not?
5. What do you think of France’s focus on job security? Does the current system help or hurt French workers? Does it help or hurt recent college graduates?
6. Does the French government’s focus on job security help or hinder its economy? Should the government be so heavily involved in employment matters?