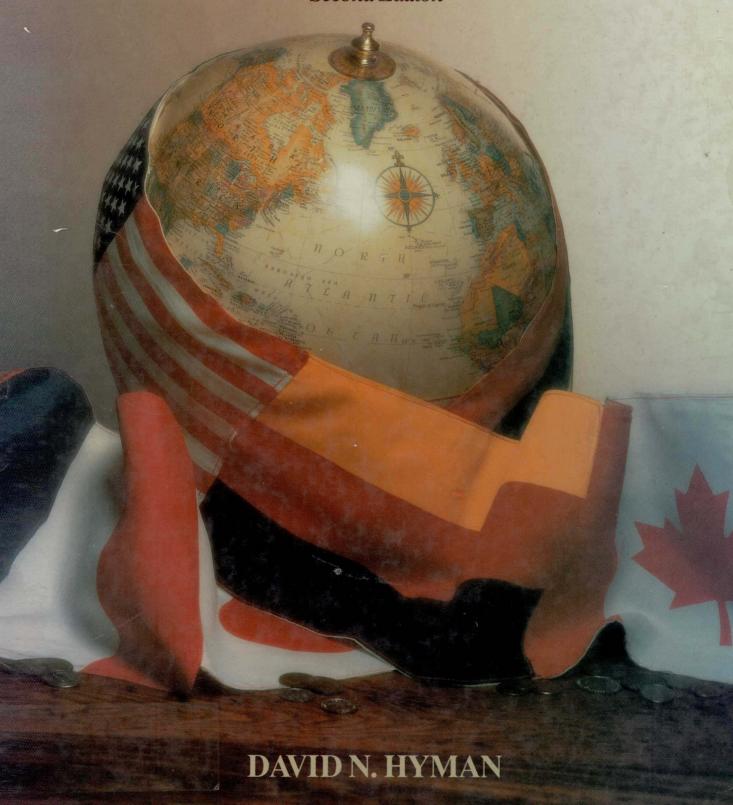
# **ECONOMICS**

Second Edition



## **ECONOMICS**

## SECOND EDITION

DAVID N. HYMAN

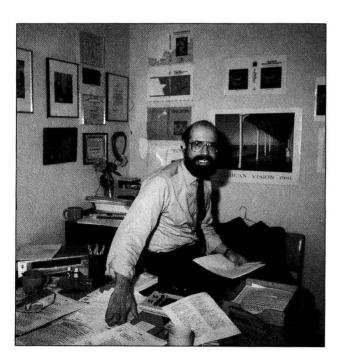
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## About the Author

David N. Hyman is Professor of Economics at North Carolina State University where he has taught since receiving his Ph.D. in economics from Princeton University in 1969. In addition to being the author of *Economics*, Dr. Hyman is the author of widely used texts in public finance and microeconomics and is one of the most experienced textbook authors in the field of economics. Professor Hyman has taught principles of economics to large numbers of students



over the past 24 years and has been the recipient of several awards for outstanding teaching. His research on economic issues has been published in respected academic journals.

Professor Hyman's broad range of professional experience outside academia gives him the breadth of knowledge required to write a comprehensive and relevant text. He was a Senior Fulbright Research Scholar in Italy in 1980 and held a CNR (National Research Council of Italy) Fellowship from 1976 to 1977 while doing research at the University of Turin in Italy. He has had considerable government experience in Washington, D.C., where he has worked as a budget analyst and has served on the staffs of the Office of the U.S. Comptroller of the Currency of the Treasury Department and the Board of Governors of the Federal Reserve System. In 1988 he was a consultant to President Reagan's Council of Economic Advisers. During this time he authored Chapter 2, "Fiscal Policy and Economic Expansion" of the Economic Report of the President (1989). In 1989 he was senior staff economist on President Bush's Council of Economic Advisers.

Professor Hyman is also a professional fine art photographer whose works are in the permanent collection of the Corcoran Gallery of Art in Washington, D.C. His photographs have been exhibited in many galleries and museums and have been published in art photography books and on the covers of several novels. For recreation, he enjoys playing the flute and working in his garden.

## **Preface**

The second edition of *Economics* builds on the foundation of success of its first edition. I remain convinced that students have an innate interest in the subject of economics that can be stimulated by a text that applies and uses economic theory, showing how the economy functions. In this new edition I have added features that help students fathom the modern global economy. I have also added many more applications that demonstrate how the discipline of economics is relevant to students' personal lives and to the business, managerial, and policy issues that they read and hear about.

Economics is a vital component of any student's education. Knowledge of economic principles is essential for success in dealing with day-to-day affairs in the modern world. The rapid evolution of global interdependence among both highly industrialized and less developed economies demands a fundamental change in the way we teach principles of economics. In the second edition, I use every opportunity to demonstrate the increasing importance of interna-

tional trade in the U.S. economy. I have also integrated more international examples relating to business and policy issues in foreign nations, including examples that discuss the perils of hyperinflation and the painful transition from central planning to free markets in the Soviet Union and eastern Europe.

While highlighting international economics, I have not neglected basic issues that show students the relevance of economics in their daily lives. The text makes heavy use of marginal analysis and basic supply and demand analysis, and applies both microeconomic and macroeconomic analysis to a wide range of issues. I have revised many portions of the text to improve clarity of exposition.

My goal in writing this book is to communicate the relevance of economics to everyday life by blending examples and applications with economic theory in each chapter. The text is a comprehensive learning resource that I hope students will enjoy reading and using.

David N. Hyman

## Acknowledgments

It is with the utmost appreciation that I thank all those who contributed time and thought to this book. I regard them as partners in the development of this text.

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I also express my gratitude to a panel of specialists who examined our real-world applications: Terence Alexander (international), University of California; Lewis Cain (historical), Loyola University; Phil Friedman (macroeconomic), Bentley College; Wendell McCulloch (international business), California State University; Charles E. Staley (historical), State University of New York; Michael K. Taussig (environmental), Rutgers.

The staff of Richard D. Irwin were helpful throughout the revision and production process for this book. Gary Nelson, sponsoring editor, provided many useful suggestions for the second edition. Joan Hopkins supervised the developmental process of the new edition and worked very closely with me on perfecting the various drafts of the book. Susan Trentacosti efficiently managed the production process and Tara Bazata provided an elegant and functional design for the book. I am grateful to all those at Irwin for the many hours of work and thought that they put into the process of producing the polished text.

My colleagues at North Carolina State University were always available to help me sound out my ideas and supply information on their areas of specialization. I also wish to heartily thank my students at North Carolina State University who always keep me on my toes and provide the inspiration for developing many of the new ideas and applications that appear in this new edition. Carolyn Smith provided remarkably efficient secretarial assistance and helped me keep up with my deadlines while maintaining her good humor.

Finally, I must thank my wife Linda for her support during the period I have worked on this project. She deserves a medal for her patience with a writer who has spent so many hours working on this new edition.

D. N. H.

## A Note on Learning

## RESOURCES: HOW TO GET THE MOST OUT OF THIS COURSE

Economics is all about the utilization of resources. How should you go about maximizing the return on the time you will invest in your economics course? What resources should you use as you begin your study?

Your primary resource is this textbook (and the accompanying **Study Guide**). You'll find it beneficial to read the assigned chapters before your classroom lectures; keeping up with the reading assignments is especially important in economics because later chapters build on the principles in earlier ones.

This text has been designed with your learning in mind. Besides its careful and detailed unfolding of basic economic principles, the book contains a number of useful learning aids that will help improve your comprehension of the material. The introduction to each chapter is followed by a Concept Preview that outlines the key points you'll be exploring and that you should understand when you've finished the chapter. At the end of each major chapter section is a Concept Check: a series of questions that will help you test your grasp of what you've just read. Stop and respond to these questions to make sure you've acquired the background you'll need to go on to the next section. The Concept Checks will also be useful when you're reviewing material for a test. You'll notice, too, the yellow Concept Symbols in the margin. These point the way to the discussions that explain chapter objectives. You'll see them again in the end-of-chapter questions—if you need to reread to answer questions, the concept symbols will help you quickly find the appropriate section(s).

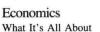
Throughout each chapter, **Key Terms** are highlighted in color type and defined when introduced. These terms are defined in the margins and are also listed at the end of the chapter. The marginal definitions will be a valuable aid in building your economic vocabulary. In the back of the book you'll find all of the text's key terms in a comprehensive **Glossary**.

Learning economic theory is first-rate mental exercise—but how do we translate theory into application? In addition to the many relevant real-world examples provided throughout the text, each chapter also contains one or more boxed analyses that enlarge on and illustrate an important concept discussed in the text. Entitled Principles in Practice, each of these commentaries offers you a close-up view of an economic theory in action, from supply and demand to the pros and cons of trade protectionism. Some of the commentaries have a business focus and are subtitled either Managerial Methods or Business Briefs. These business-oriented features concentrate on decision making within businesses and on the competitive environment in which business firms operate. Other ones are subtitled Policy Perspectives; these apply economic principles to policy issues.

This edition of the text contains two new features that apply economics to the real world. The Global Economy: World and International Focus highlights important international trade or global economic issues to help you appreciate the increased international dimensions of the subject of economics. A global economy feature appears in almost every chapter of the text and often provides you with an opportunity to see how the theory discussed in each chapter can be applied to better understand a key international or global issue.

## YOUR LEARNING AIDS

**Inside Information** highlights sources of economic information or analyzes issues relating to the accuracy of economic information.



W hen you graduate from college, will it be difficult or easy for you to find a job? How will changes in the prices of things you want to buy affect your standard of living? Will you be able to qualify for a car loan or a mortgage? What impact will federal budget deficis have on your future well-being as your tax funds are used to pay interest on the national debt? Will foreign competition deprive you of

used to pay interest on the national debt? Will foreign competition deprive you of a job?

As these questions make clear, economics is about you, student, consumer, employee, and voter. Economics is about the constraints you face, the choices you make, and your interdependence with others for survival.

In economics you'll study the opportunities and obstacles all of you will confront as you seek to make a living and to satisfy your desires for both the necessities and luxuries of life. As you learn economic principles you'll develope a systematic way of thinking about the consequences of human behavior and the way the economy functions. You'll also gain insights into social problems and various approaches to resolving or alleviating them. The emphasis in this book is on how you can use economics as a practical tool to comprehend and deal responsibly with personal, business, and social issues.

- Describe the mechanism of the economy and the discipline of economics.

  Understand the concepts of scarcity and opportunity cost.

  Discuss major branches of economic inquiry microeconomics, macroeconomics, positive analysis, and normative analysis.

  Understand the concept of an economic model and its uses,

  Explain rational behavior and marginal analysis, a method of analyzing the way we make decisions.

Concept Checks provide three review questions at the end of each major section designed to help test comprehension and mastery of the main points in that section.

Concept symbols highlight discussions of important concepts listed in the chapter objectives (Concept Previews).

**Key terms,** printed in color and defined when introduced, list important chapter words and concepts that students need to know.

Marginal definitions allow you to understand and apply important key terms when they are first used in the text.



Getting Information on Financial and Commodity Markets



Do you own any shares of stock? Have you ever traveled to a foreign country? Are you interested in learning about ways to make money? It so, you'll be interested and both ways to make money? It so, you'll be interested in the functioning of the financial and commodity makes that we will discuss in this part of the book. If you want to follow the markets on a daily basis, you can look in your daily paper, You will be able to get most stock and mutual-fund prices in the financial section. If you're interested in the price of precious metals you can track the prices of gold, silver, and platinum.

platinum.

Specialized newspapers have more detailed informa-tion than most regular daily papers. Two of the best are Barron's and The Wall Street Journal. The "Money & Investing" section of The Wall Street Journal is a major source of daily market information for thousands of businesses and private investors. On the left side

of this section's first page is a series of graphs and tables that show market trends based on the Dow Jones Industrial Average, the Standard & Poor's 500, and NASDAQ, as well as tenuds in prices on the London and Tolyo stock exchanges. You'll find data on bond prices and interest trace as well as the U.S. dollar's close the control of the control o

## Concept Previews list learning objectives for each chapter.

to be an expert in welding, electrical wiring, painting, and upholstering. Even if you were skilled in all these operations, it might take you as long as a year to

produce a finished car.

With a division of labor, the numerous tasks involved would be assigned to many workers, each specializing in one task. By dividing tasks, managers can use sophisticated machinery and equipment and produce many more cars than would be possible if each worker tried to do all the tasks. A division of labor exists in a broader sense throughout the economy. People with specialized skills function as physicians, police officers, architects, musicians, and farmers.

- Under what circumstances might an economy operate at a point within rather than on its production possibilities curve?
  What is meant by the term productive efficiency?
  How does the division of labor increase production?

### ECONOMIC GROWTH: EXPANDING PRODUCTION POSSIBILITIES

From year to year, growth in available supplies of economic resources, improvements in resource quality, and advances in technology can expand production possibilities in a socigita. Economic growth is the expansion in production possibilities that contains from increased availability and increased productivy of economic growth occurs over time, the production possibilities curve will shift outward. This means that the economy will be able to produce more of all goods. In this section we'll consider three sources of economic growth:

- 1. Increased quantities of economic resources.
- Improved quality of economic resources
   Advances in technology.

Annual Growth in Available Resources

Annual Growth in Available Resources

An increase in available economic resources allows us to produce more. Other things being equal, the more workers willing and able to work, the more capital, and the more land, the greater the production possibilities. This means the production possibilities conver will shift outward in response to an increase in available economic resources, as you can see in the graph in Box 5. Production possibilities that were previously unattable will now be feasible. Increases in economic resources available for production will therefore result in a new production possibilities curve. The shaded area in the graph represents previously unattainable combinations of food and clothing that become feasible when resources become more plentiful or their quality improves.

The availability of new capital is especially effective in pushing the production possibilities curve outward, because new capital often complements labor, land, and other natural resources. This means that additional capital tends to increase the productivity of available labor and land. For example, supplying workers with more and better equipment increases the output per worker. Similarly, using more capital erver. Growth in capital is an expectabily important sanging the production of food per cere. Growth in capital is an expectabily important sanging the production of food per cere. Growth in capital is an expectabily important sanging the production of food per cere. Growth in capital is an expectabily important sanging the production of food per cere. Growth in capital is an expectabily important sanging the production of food per cere.

sues.

### Principles in Practice

PART I Introduction to Economics

Policy Perspective

The Economics of Drinking, Driving, and Highway Deaths: An Example of Positive Analysis



What does drunken driving have to do with economics? The answer is 'a whole lot,' a ecording to recent posi-tive analysis of the impact on fatal motor which each cidents of raising the drinking age and taxing beer. For people in the United States between the ages of 16 and 24, automobile accidents are a leading cause of death. Evidence suggests that policies increasing the cost of obtaining alcoholic beverages also reduce

highway deaths. For example, taxes on beer increase the price of beer and tend to decrease its consumption. Similarly, raising the drinking age to 21 makes it more difficult for persons under that age to obtain alcoholic handsomer.

Similarly, raising the dinking age to 21 makes it more difficult for persons under that age to obtain alcoholic difficult for persons under that age to obtain alcoholic beverage.

1904, all 50 states have raised their minimum dinking age to 21. Positive analysis by economists of the impact of the increased draiking age has concluded that it would reduce nightning fast crash involvements by 13 percent.

Recent reasonsh also suggests that increased taxes on beer can be very effective in reducing drinking by impact to the control of the consumption of beer. Positive reasons, it is likely to induce young drinkers with low incomes to cut back their consumption of beer. Positive reasons, it is likely to induce young drinkers with low incomes to cut back their consumption of beer. Positive analysis of the impact of taxes on beer augusts in the United States had increased faster than they actually did between 1975 and 1982, over 1,000 lives of youth between the ages of 18 and 20 could have been saved annually! You may have your low views about the legal drinking age or the increased states on beer. You may very well change your views in response to positive analysis as Alcohol Purkasa views in Effective of artificial part of the positive analysis of the increased state of the comments of drinking and driving!

20 Alcohol Purkasa views in Effective of artificial part and the positive analysis of the increased state of the comments of drinking and driving!

m Da Mouchel, Allan F. Williams, and Paul Zador, "Raising the Alcebel Purchase Age: Its Effects on Fatal Motor Vehicle Cras-ty-sia States," Journal of Legal Studies 16, no. 1 Lansary 1987, pp. 2-02-66.

Its Research, Working Paper No. 1914, May 1996, 201 Danish, Age, and Youth Motor Vehicle Fatalities," National Bureau of its Research, Working Paper No. 1914, May 1996, 201 Danish, Age, and Youth Motor Vehicle Fatalities," National Bureau of its Research, Working Paper No. 1914, May 1996, 201

Normative Analysis

Positive analysis cannot be used to evaluate an outcome. For example, positive analysis of government welfare programs can look at the impact of such programs on the incentives of recipients to work and on national production but it cannot try to determine whether the programs are good or bad. To evaluate these programs' performance we must establish criteria or norms against which we'll compare actual.

## Clear, easy-to-understand graphs explain and illustrate economic concepts.

PART III Product Markets

tially increase costs of production and make it difficult for a firm to compete with its rivals. Offering incentives for advancement, providing on-the-job training, and rewarding productive workers for their efforts ultimately can result in greater profits for the firm's owners.

## The Global Economy: World and International Focus The Globalization of U.S. Business





STANLEY

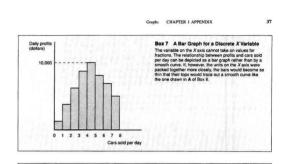
The Global Economy: World and International Focus

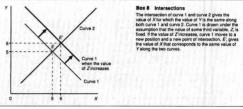
The Globalization of U.S. Business

You've probably heard quite a bit about the Japanese and other foreign businesses buying or building plants in the United States and acquiring U.S. businesses. It might surprise you to know that as of the early 1990s, the percentage of total corporate assets that U.S. companies held abroad was a whopping three times the percentage of Japanese corporate assets held showd was a whopping three times the percentage of Japanese corporate assets held showd Many large U.S. comporations are "global enterprises" investing heavily abroad. Their profitability no longer depends on the U.S. economy alone. In the late 1980s, U.S. business firms scrambled to build plants and acquire equipment in foreign nations. By 1988, U.S. nonfinancial corporations held nearly 17 percent of their business assets in foreign rations. This put U.S. comporations the profit of the part of the world at that time. A composition of the percentage of the world at that time overcase markets, thereby using foreign workers and relying less on exporting. In some cases, U.S. companies produce the same product in plants throughout the world. For example, in 1989 Moterola Inc. had plants making electronic pagers in Florids and Kuala Lumpur, Malaysia. However, its design and engineering divisions were in the foreign plant. Big corporations like Ford Motor Company are expanding their operations in Europe. A full 98 percent of the parts and machinery Ford uses to build its European cara are made in Europe rather than exported from the United States. The plants that U.S. companies build in Europe are modern and efficient. Because labor costs in Europea cara are made in Europe are modern and efficient. Because labor costs in Europe are concluded they can gain more market share abroad by producing their products there rather than by exporting them from the United States. The plants that U.S. companies build in Europe are modern and efficient. Because labor costs is not a prim

See Louis Uchitelle, "U.S. Businesses Loosen the Link to the Mother Country." The New York Times, May 29,

**Principles in Practice** boxes show how economic topics relate to business, financial, personal, social, policy, and international is-





### INTERSECTIONS AND TANGENCIES

The graphs used in this book are two-dimensional. This means they plot values for two variables. In many cases, however, a third variable can be introduced in a two-dimensional graph by showing how changes in its value affect the values of the two initial variables.

In many graphs drawn to facilitate economic analysis,  $n\omega$  curves will be drawn on the same set of axes. The **Intersection** of two curves is the point at which they cross. An intersection usually reveals some inpursant economic information. The graph is Box 8 shows the intersection of two curves at point E. The value of X at this point is such that the corresponding value of Y is the same for the relationship indicated by curve I and that indicated by curve Z. (In Chapters Z) through Z0 you'll have lots of practice in interpreting the intersections of two curves.)

## The Global Economy: World and International Focus dis-

cusss important international trade or global economic issues showing the increased international dimensions of the subject of economics.

Economic Thinkers boxes illustrate the ideas, contributions, and backgrounds of major figures in economic history.

The Business Firm CHAPTER 8

Firms that supply themselves with all materials and services at all stages of production are vertically in-grated. A firm's degree of vertical integration is influ-enced by the transaction costs of contracting with other firms for materials and services, firms, it's useful to a contract of the services as substituted by assuming that firms pro-sure a scale worker as such contract or contract.

make some simplifications by assuming that firms pro-mate some simplifications by assuming that firms pro-port tover a certain period is the difference between a firm's total revenue and total cost over that period. Economic coat is the monetary value of all inputs used in a particular activity or enterprise over a given period. Economic cost exceeds accounting cost by the value of the services of owner-supplied inputs. The value of the services of owner-supplied inputs in called im-plicit cost. Economic profits are always based on eco-nomic costs. Normal profit is the part of the firm's costs that is included in profit value profit is calculated on the basis of accounting cost instead of eco-nomic cost.

the preceding example were \$200,000. Because annual accounting cost was \$90,000, the accountant would report an annual profit of \$110,000! Melissa, being shrewd, would realize that her actual economic profit was only \$27,000 that year. The normal profit for Melissa's store is \$83,000, the opportunity cost of her owner-supplied inputs. Suppose her annual sales revenues were instead only \$100,000. The accountant would report a \$10,000 annual profit. However, Melissa would realize that she actually lost \$73,000 based on her economic costs that year! She would go out of business as soon as possible if she didn't expect an improvement in sales.

\*\*Because economists always measure costs as apportunity costs, normal profit is always included as a cost of operating the firm. When measuring costs, remember that the normal profit is included in those costs because it's a measure of the value of owner-supplied resources.

- How do accounting costs differ from economic costs? Explain why profits calculated on the basis of accounting costs won't always accurately measure a firm's economic profits. What is economic profit? Explain why a firm for which total revenue exceeds its accounting cost for the year might really be incurring losses.

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- 1. A basiness firm is an organization under one management set up for the purpose of earning profits for its owners by making one or more items available for sale in markets.

  2. Business firms can be grouped according to industries selling similar products. Each firm might operate more than one physical facility, called a plant.

  3. Sole proprietorships, partnerships, and corporations are different types of business organizations. Sole proprietorships and partnerships are owned by individuals, while corporations have a legal identity separate from their owners. A corporation is owned by its stockholders.
- from their owners. A corporation is owned by its stockholders.

  4. Limited liability is a legal provision that protects stock-holders by limiting their liability for debts of the corpo-ration to the amount of funds they invested by purchas-
- faunt to the ing stock.

  Corporate and noncorporate firms fulfill similar func-tions, including production of goods and services, as-signment of tasks to workers, contracting with other firms, and personnel management.

### KEV TERMS

Business firm 215 Business firm 215 Partnership 215
Vertical integration 215 Dividend 216
Conglomerate 215 Retained earnings 216
Industry 215 Limited liability 217 Conglomerate 215 Industry 215

Sole proprietorship 215 Manager 219

Personnel management 221 Accounting cost 225
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Single-product firm 223 Normal profit 228
Profit 223 Economic profit 228 Partnership 215 Economic cost 224

Implicit costs 224

Key Terms are listed again at the end of the chapter with page numbers to help reviewing.

Concept Reviews check understanding of chapter objectives.

**Problems and Applications** help check understanding of important concepts in both expository and graphic form.

Concept Symbols refer back to chapter objectives and text discussions needed to answer questions.

Suggested Readings list articles or selected chapters in textbooks and other reference works that will enhance comprehension.

Market Transactions CHAPTER 3

### **Economic Thinkers**

### Alfred Marshall



The Market Demand Curve and the Law of Demand
A demand schedule is a table that shows how an item's quantity demanded would
vary with price, other things being equal. The table in Box I shows a hypothetical
demand schedule for grade A eggs sold per week in a local farmers' market. The
first column of the table shows possible prices per dozen eggs. The quantity demanded,
shown in the second column, represents the weekly number of eggs that buyers
are willing and able to purchase at each price. The schedule is based on the assumption
that there's no change in any other demand influence except price. The schedule
shows a number of possible outcomes in the market. The actual quantity purchased
over the period depends on the price of eggs given all other determinants of the
amount huvers will hav.

over the period depends on the proce or eggs good and amount buyers will buy.

The data in the hypothetical demand schedule indicate an inverse relationship between price and quantity demanded. When price goes down, the quantity demanded goes up. For example, at a price of \$2 per dozen, the quantity of eggs demanded per week is only 1,000 dozen. At a price of \$1.50 per dozen, buyers would demand

per week is only 1,000 dozen. At a price of \$1.50 per dozen, buyers would demand \$3,000 dozen eggs per week.

The law of demand states that, in general, other things being equal, the lower the price of a good, the greater the quantity of that good buyers will purchase over a given period. Conversely, the law implies that buyers will purchase less of a good over any given period if its price increases while nothing else changes. The law is relevant to all goods and services, not just grade A eggs. For example, the lower the price of subway rides, other things being equal, the greater the quantity

Law of demand
The principle stating that,
in general, other things
being equal, the lower the
price of a good, the
greater the quantity of that
good buyers are willing
and able to purchase over
a given period.

The **Summary** at the end of each chapter enumerates the important concepts just learned.

### CONCEPT REVIEW

How does a corporation differ from a sole propri-ciorship and a partnership? Why are most large business firms in the United States corporation? 2. List the functions of business firms and explain how a vertically integrated from differs from a firm that is not vertically integrated. 3. What simplifications are usually made by econo-

PROBLEMS AND APPLICATIONS

- How would you determine how to group firms into industries? How can you use the concept of elasticity of demand to help establish industry groups? 

  1.
- or demand to neip existions industry groups? \*\*I.\*

  Suppose you're a management analyst for a fast-food chain selling meals similar to those at McDonald's. Make a list of the firm's inputs and outputs. \*\*Z A major and producer hires you to evaluate the desirability of acquiring a firm that produces trees. The firm of the producer control of the producer trees are the most of the extension of the company. What facens would you consider when making your evaluation of the acquisition? \*\*V |
- would you consider when making your evaluation to the acquisition? ▼ 11 4. Write an organism to calculate total revenue for a single-profiler firm. How would you calculate total reverse for a multiproduct firm? How would you cal-ration to the profiler for both of these firms? ▼ 3 A corporation earms \$100,000 profil. None of this profil is paid out an dividends to subschulders. What profil is paid out an dividends to with the profiler." 6. A corporation has assets valued at \$5 million. It also
- SUGGESTED READINGS

Ball, Donald A., and Wendell H. McCulloch, Jr. Inter-national Business: Introduction and Essentials. 3rd ed. Homewood, Ill.: Richard D. Irwin, 1990. This textbook discusses various aspects of international business.

handler, Alfred. Strategy and Structure. Cambridge Mass.: MIT Press, 1962. This is a classic analysis o the impact of business organization on performance and cost.

Kono, Toyohiro. Strategy & Structure of Japanese Enter-prises. Armonk, N.Y.: M.E. Sharpe, 1984. This is an intriguing and well-written analysis of the organiza-tion and goals of firms in Japan.

mists to construct a model of supply by a business

- has debts of \$2 million. What is the corporate equity? The next best use of funds tied up in the corporation is an investment that would earn a 10 percent corporation. It is the normal profit for the corporation. Yet is the normal profit for the corporation. Yet is the normal profit for the corporation. Yet is the property of the profit of the profit

ilckels, William G.; James M. McHugh; and Susar M. McHugh. Understanding Business. 2nd ed Homewood, III. Richard D. Irwin, 1990. In this comprehensive textbook on all aspects of business enterprise. Chapter 4 details forms of business organization while Chapter 5 discusses practical problems involved in start.

iamson, Oliver E. The Economic Institutions of Capi

PART 1 Introduction to Economics

### Career Profile



"How economists understand human behavior has a major impact on our culture," says Rhonda Williams, an assistant professor jointly in the commonis and Africa American studies departments at the University of Decause it can be to confining, but it is a good less through which to begin your critical thinking." Williams because it can be too confining, but it is a good less through which to begin your critical thinking." Williams becamine interested in cocomonies at the early age of eight, when her family moved to Athens, Ohio, for her father's job as a professor of Dilo Diluverity. The more exposed her to rural white govery in Appalamourty through my parents' work in the civil rights movement," she recalls. "But now I saw that even some of my white classames lived in shacks and had no dental care. This led me to think about systematic inequality and the question of where wealth coans from."

The control of the control of the control of where wealth coans from."

The control of the co

Williams

"I was glad to be back at a state institution. It was a conscious choice on my part due to the composition of the construction of the construction of the construction of the construction."

Williams knew early in her college years that she wanted to be a scheer/scholar. "I'm at the more privileged end of the teaching spectrum," she observes. "I spend about 30 percent of my inter teaching, 30 percent of my inter teaching, 30 percent of my inter teaching, 40 percent of my interested the construction of the constr

End-of-chapter **Appendixes** provide in-depth analysis of selected topics.

## Glossary

Absolute advantage The advantage a nation has over other nations in the production of an item if it can produce with a given amount of resources than the other nations can.

Accelerated depreciation allowance of the production of the nations can.

Accelerated depreciation allowance of the productions from pretax business income that are allowed when the other nations can.

Accelerated depreciation allowance of the productions from pretax business income that are allowed when the other nations can.

Accelerated depreciation allowance of the production of the production for certain and the production of the production

Career Profiles introduces the diversity of careers available to those who major in economics.

## Graphs

A Basic Tool for Analyzing Economic Relationships

Appendix

 $D_0$  graphs make you nervous? If so, relax—you're about to discover how helpful they'll be at you study economics. Economists use graphs often to express relationships, such as the way the maximum possible production of one item is affected by the production of another item. Graphic analysis is a tool to ally our in learning economics and usig into reach important enculsions. Graphs show how the value of one variable changes as the value of some other variable is

### PLOTTING POINTS ON A SET OF AXES

PLOTTING POINTS ON A SET OF AXES

A two-dimensional graph has a vertical axis along which one variable, designated in general by the symbol V, is measured. Another variable, the Variable, is measured on the horizonal axis. As the value of X changes, so will the value of Y.

The origin of the axes is the point, designated by 0, at which both X and Y take on values of zero. The axes drawn for most economic data are at a right angle, with measurement scales drawn horizontally and vertically from the origin, because most data used in economics are positive rather than negative. If, however, Y were to take on negative values, the vertical axis would have to be extended downward below the origin to accommodate negative values as well as the value of Y for each value of X in the first column. The pairs of numbers on each line of the value of Y for each value of X in the first column. The pairs of numbers on each line of the value of the Y variable changes as the value of the X variable increases or decreases. In this sense the value of Y for each value of X or vice versus.

But the value of Y depends on or is a function of the value of Y when the value of Y the value of Y depends on or is a function of the value of Y between X and Y. The second column gives the table to find the value of Y for each value of X or vice versus.

The value of Y depends on or is a function of the value of Y have the value of Y depends on or is a function of the value of Y depends to the value of Y depends on or is a function of the value of Y depends to the value of Y depends on or is a function of the value of Y depends to the value of Y depends on or is a function of the value of Y depends to the value of Y depends on or is a function of the value of Y depends to the value of Y depends on or is a function of the value of Y depends to the value of Y depends on the value of Y depends on

End-of-book Glossary provides a ready reference of key terms defined in the text and the marains.

The second new feature, **Inside Information**, highlights the sources and uses of economic information. To effectively operate in the modern world requires information. Each of the 10 parts of this text opens up with a feature that helps you learn *where* to go to get economic information. You will learn the important sources of federal government data and of business-related data. This information will be useful to you for term papers and will help you later on as you move into a career as a guide to information that you will need to perform your job.

You'll encounter throughout the text a series of profiles of leading economists entitled **Economic Thinkers**, ranging from Adam Smith to Karl Marx. These profiles provide information about the subjects' major contributions to economic thought and also offer some intriguing personal sidelights. Additionally, to give you an idea of the diversity of careers available to students who choose to major in economics, we present a series of **Career Profiles**. Although there is as much as a 45-year age span among our subjects, and although they are enjoying success in widely different fields, they all have one important thing in common: a degree in economics.

The Summary at the end of each chapter enumerates the important concepts you've just learned; the Concept Review gives you one more check of your understanding of the chapter objectives; and the Problems and Applications give you the opportunity to demonstrate your understanding of these concepts in both expository and graphic form. Like the Concept Checks, these end-of-chapter features are helpful review aids.

At the end of each chapter is a list of **Suggested Readings:** articles or selected chapters in textbooks and other reference works that will enhance your comprehension of key material you've just studied. Go to the **library** and find these readings. You may be surprised to discover how much they can add to your growing store of knowledge about economics.

## **USE THE STUDY GUIDE**

Accompanying *Economics* is an excellent Study Guide prepared by Donald P. Maxwell of Central State University, Edmond, Oklahoma. Each chapter contains learning objectives, a fill-in summary of chapter content, vocabulary exercises using key terms, and a series of activities—work with graphs, fill-in charts and tables, completion exercises, and

more. These exercises are followed by a mini-exam to check your learning and to help you prepare for taking your exams. Time invested with this invaluable resource will yield maximum returns for you.

## TALK TO YOUR INSTRUCTOR

Your instructor is an experienced, knowledgeable professional who wants to serve as a resource for you and your classmates. If you consider this text a blueprint for the study of the relationships among economic principles, your instructor can provide the guidance you need to comprehend and connect the details of the blueprint and can serve as your interpreter as you learn the language of economics. In class and after class, ask your instructor questions. Challenge points you disagree with; request clarification of those you don't fully understand. Ask your instructor to recommend additional readings; seek his or her advice about career paths.

## KEEP UP WITH CURRENT EVENTS

People in business read a variety of publications; among them are *The Wall Street Journal*, *The Economist, The New York Times, U.S. News & World Report, BusinessWeek*, and *Fortune*. Alone and in combination, these resources contain a wealth of information you'll find pertinent to your study of economics. All of these publications are available free at your library, and you should plan to become a regular reader. Their analyses, editorials, and features will bring into sharp focus the material you'll



Newspapers, weekly magazines, and business publications are a major resource for understanding economic principles in action.

be studying, from the economics of pollution control to the cost of agricultural subsidies and government assistance to the poor. In the pages of these publications you'll be introduced to new industries and growing companies (your future job market!); to talented young entrepreneurs and corporate leaders with decades of experience; to high government officials and foreign heads of state. Reading these publications regularly gives you the chance to expand your horizons beyond the classroom and to see how the economic principles you're learning work in the real world.

## YOUR FRIENDS ARE RESOURCES, TOO

Talk to your classmates outside of class. Discuss what you're learning and how it fits in with your curriculum and your ambitions. Their interests, family backgrounds, job experience, and career plans can be a productive resource for you. Classmates may be related to or acquainted with someone who's succeeding in a career to which you're attracted—and you may be helpful to them in the same way. Consider forming a study group for review and discussion of the material you're covering, or enhance your personal interaction skills by organizing a team to prepare a class project.

## CONSIDER ECONOMICS AS A MAJOR

Talk to or read about people who have degrees in economics. You'll find them in literally dozens of fields. The Career Profiles in the book show you just a few of the choices that can be made, but you'll find



The study of economics can lead to success in a diversity of careers.

economics majors are succeeding as entrepreneurs, diplomats, bankers, journalists, Cabinet heads, corporate leaders, consultants, judges, and politicians.

Because economics is such a wide-ranging discipline, it's an excellent adjunct to many programs of study. If your major is business administration, political science, or international relations, a minor in economics will provide valuable insights into the contemporary social environment. If you elect to concentrate in marketing or finance, you can profitably pursue economics as a second major or a minor. A pairing of economics and journalism can help you lay the groundwork for a successful career in business communications. An undergraduate degree in economics also serves as an excellent foundation for graduate work in a variety of fields: business, law, public administration, and health, to name a few.

If you decide to become a professional economist, you almost certainly will need a graduate degree and will be pursuing career opportunities in business, teaching, research, or government. The National Association of Business Economists publishes a helpful booklet, *Careers in Business Economics*, that describes the responsibilities of economists in government, insurance, banking, consulting, investments, industry, and communications. The booklet also outlines the education requirements for business economists and provides information on salaries.

## APPLY ECONOMICS IN YOUR LIFE

Above all, recognize that your "laboratory" for economics is no less than the world you live in. In this wider environment are valuable examples that will reinforce the economics you'll be learning from this text and from your class discussion. Be in tune with these applications wherever you find them—newspapers, magazines, television and radio; or from discussions with teachers, friends, and family; or from the everyday experiences of your own life.

I think you'll find that in all your endeavors, you'll be well served by the discipline of the economic way of reasoning. It's hard to think of a situation in which you wouldn't benefit from thinking logically and weighing alternatives. Good luck as you begin your exciting adventure.

D. N. H.

<sup>&</sup>lt;sup>1</sup>Copies of this booklet may be obtained from the National Association of Business Economists, 28349 Chagrin Blvd., Suite 201, Cleveland, OH 44122. Single copies are free; quantity discounts are available.

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