

THE MICRO TONOMY TONOMY

SIXTH EDITION

THE MICRO ECONOMY TODAY

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BRADLEY R. SCHILLER

THE AMERICAN UNIVERSITY

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THE MICROECONOMY TODAY

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THE MICRO ECONOMY TODAY



ABOUT THE AUTHOR

Bradley R. Schiller has over two decades of experience teaching introductory economics at The American University, the University of California (Berkeley and Santa Cruz), and the University of Maryland. He has given guest lectures at nearly 100 colleges ranging from Fresno, California, to Istanbul, Turkey. Dr. Schiller's unique contribution to teaching is his ability to relate basic principles to current socioeconomic problems, institutions, and public policy decisions. This perspective is evident throughout *The Microeconomy Today*.

Dr. Schiller derives this policy focus from his extensive experience as a Washington consultant. He has been a consultant to most major federal agencies, many congressional committees, and political candidates. In addition, he has evaluated scores of government programs and helped design others. His studies of discrimination, training programs, tax reform, pensions, welfare, Social Security, and lifetime wage patterns have appeared in both professional journals and popular media. Dr. Schiller is also a frequent commentator on economic policy for television, radio, and newspapers.

Dr. Schiller received his Ph.D. from Harvard in 1969. His B.A. degree, with great distinction, was completed at the University of California (Berkeley) in 1965. He is now a professor of economics in the School of Public Affairs at The American University.

PREFACE

The economy doesn't stand still. The global economy has been transformed in just a few years' time by the unraveling of the Soviet Union, the unification of East and West Germany, the economic surge of the Pacific Rim, and the creation of free-trade blocs in Europe, North America, and Southeast Asia. The domestic economy has been transformed by recession and corporate restructurings, and by President Clinton's "vision of change" policies.

As always, *The Microeconomy Today* tries to keep up with the forces that are changing the economic landscape. This requires more than simply reporting recent events. The real challenge is to integrate economic transitions into basic models of how the economy works. The collapse of communism, for example, raises in the most vivid terms the classic debate about market-driven vs. government-directed economies. We must not only tell the story of that collapse but also use it to highlight the unique features of the market mechanism. It is no small irony that Russian and Eastern European reformers have embraced the tenets of a market system that so few American students understand.

President Clinton's vision of change creates similar opportunities for high-lighting the key features of economic models. The reordering of spending priorities and tax burdens offers new opportunities to illustrate how government policy can alter the WHAT, HOW, and FOR WHOM outcomes of the economy. The re-regulation of cable TV reignites the controversy over when and how government should regulate industry. And President Clinton's vow to "end welfare as we know it" shines a spotlight on work incentives and labor-supply behavior.

This sixth edition of *The Microeconomy Today* tries to bring to the classroom the excitement of these changes. In the process, there is a lot of new material in micro theory and applications, in international, and in pedagogy.

WHAT'S NEW AT THE OUTSET

Profile of the American Economy. Repeated surveys have confirmed that students have very little knowledge about the dimensions of "the economy." Indeed, surveys by the Gallup Organization and the National Council on Economic Education reveal that far more Americans are opposed to budget deficits than know what budget deficits are (see In the News). People know that America produces a lot of output but few realize that we produce one-fourth of the entire world's output. With so few hard facts at their disposal, students (and their parents) are easy prey for false and misleading characterizations of America's economic problems. The all-new Chapter 2 tries to establish an empirical foun-

dation for the principles course by providing a sketch of the American economy today. This descriptive portrait is organized around the core WHAT, HOW, and FOR WHOM issues. America's unique answers to these issues are also put into a global perspective. Chapter 2 should help anchor abstract principles to a solid empirical base.

WHAT'S NEW IN MICRO

Reorganized Market Structure Sequence. The sixth edition offers separate chapters on oligopoly (Chapter 9) and monopolistic competition (Chapter 10). This gives instructors greater flexibility in sequencing. This also facilitates the integration of more real-world case studies, most of which were previously placed in a separate chapter on "market power." A new table (9.1) and figure (9.1) on the spectrum of market structures provide a foundation for this core subject.

Government Intervention. The contrast between market-driven and government-directed behavior permeates *The Microeconomy Today*. A new chapter (11) consolidates the basis for government intervention (market failure) and its sources. The possibilities of *government* failure and its sources (including public choice theory) are also discussed. This new chapter is designed so that it can be used before the micro theory sequence or at some later juncture in the course.

Emphasis on Competition. In the fifth edition of *The Microeconomy Today* the discussion of competition was separated into two chapters, one focused on the competitive *firm*, the second on the competitive *market*. This unique treatment emphasizes at the outset the critical distinctions between firm behavior and market behavior. It also facilitates more discussion of how competitive forces reduce prices, lower costs, spur innovation, and expand markets. This emphasis on the role of competition is augmented in the sixth edition with an early link between costs and competition (Chapter 5). Entrepreneurship, introduced in Chapter 1, is illustrated there with examples from both the United States and China. The entrepreneurial force behind competitive markets is also highlighted as a source of emerging technologies that is changing the structure of *regulated* markets (Chapter 12).

Tax Reform. President Clinton has vowed to reverse tax policies that "benefit the rich at the expense of the middle class and the working poor." To do that he has proposed to increase taxes on the rich and increase tax subsidies (the Earned Income Tax Credit) to the poor. Chapter 18 examines this proposal in the context of the equity vs. efficiency trade-off and offers the Clintons' own 1992 tax return (page 408) as an illustration.

WHAT'S NEW IN INTERNATIONAL

Crosscurrents of Global Trade. "EC 92" has become a reality and NAFTA is emerging. GATT agreements are extending trade liberalization to services, intellectual property, and, grudgingly, to agriculture. At the same time, the Clinton administration and the EC commissioners are manifesting increasing interest



IN THE NEWS

Americans Flunk Econ 101

Study Finds Basic Grasp of Terms, Concepts Lacking

Americans have strong opinions on economic matters. The problem is, many of them lack basic economic knowledge on which to base those opinions, according to a national survey of economic literacy....

The survey, done last March for the council by the Gallup Organization, found that "many people do not understand the meaning of basic economic terms," said William B. Walstad, director of the National Center for Research in Economic Education at the University of Nebraska. "In contrast, they have very strong opinions about things about which they have no underlying knowledge."

-John M. Berry

The Washington Post, September 10, 1992. © 1992, The Washington Post, Reprinted with permission.

E Is for Economy

Percentage of Correct Responses

General Public	High School Seniors	College Seniors
22%	10%	26%
11	4	12
51	38	66
19	22	24
46	38	58
48	39	55
68	69	77
36	42	52
64	72	79
50	38	61
39%	35%	51%
	Public 22% 11 51 19 46 48 68 36 64 50	General Public School Seniors 22% 10% 11 4 51 38 19 22 46 38 48 39 68 69 36 42 64 72 50 38

Source: National Council on Economic Education.

Analysis: Most Americans cannot identify basic economic concepts or the dimensions of economic problems. We teachers have our work cut out for us.

in managed trade policies that promote certain export industries and protect specific import-competing industries. The sixth edition describes these cross-currents and pushes the subject of trade into the center of macro and even micro discussions.

Gyrating Currencies. Gary Becker admits to a lapse in his applied microeconomics. Had he hedged the value of his 1992 Nobel Prize in the currency futures market, his prize would have been worth \$242,000 more on the day he accepted it (see World View on page 484). But who would have guessed that the Swedish central bank would raise the discount rate to 75 percent (!) to keep the value of the krona from plummeting? Students of the economy today can't help but hear stories about the weak dollar, the strong yen, or the currency crises in Europe, Russia, and South America. The sixth edition includes more discussion of international money flows and their implications for economic outcomes.

The "Other Path" to Development. Strategies of economic development are changing. Less emphasis is being put on physical resources and more on human resources. Governments are ceding more control to markets. The collapse of communism was one catalyst for these changes; another was Hernando de Soto's acclaimed *The Other Path*. De Soto emphasized that even poor countries

have organized markets (often "underground") and a rich store of entrepreneurial talent. The "other path" emphasizes the need for developing nations to facilitate entrepreneurship by reducing regulatory barriers; guaranteeing the security of people, profits, and property; privatizing more enterprises; and promoting competition. In a world of declining real transfers, de Soto's call for internal reform is all the more pressing. The "other path" provides a splendid opportunity to integrate micro principles into development discussions.

World Views. Every chapter includes boxed applications of basic principles in international settings. These have been updated to today's headline stories.

WHAT'S NEW IN PEDAGOGY

The Microeconomy Today strives to stay at the forefront not only of the news, but of the pedagogy as well. The running in-margin glossary, the boxed news stories, and the synchronized tabular and graphical displays introduced in previous editions of *The Microeconomy Today* have become industry standards. The sixth edition pushes the frontier a bit further out, with the following features:

Built-In Problem Set. The Microeconomy Today has always distinguished "questions for discussion" from "problems" that require mathematical or graphical solutions. In this edition the numerical problems have been expanded and moved to the end of the text. The new problem sets are designed to be detached (perforated pages) should instructors decide to assign them as homework. Each core chapter offers three to five problems, including at least one requiring graphical analysis. The detachable problem pages include fully calibrated graph grids and blanks for inserting solutions. These features will facilitate grading for instructors who choose to assign homework. All answers are provided in the new *Instructor's Resource Manual*.

The Economy Tomorrow. Each chapter now ends with a challenging application of basic principles to emerging problems. The goal of these Economy Tomorrow sections is to challenge the student to apply core concepts. A sampling of these discussions conveys the scope and flavor of these sections:

In Core Chapters:

- How to Spend a Peace Dividend (Chapter 1) examines alternative uses of planned cutbacks in defense spending, highlighting public- vs. private-sector options.
- Rent Controls in New York and Moscow (Chapter 3) illustrates the inevitable shortages that accompany rent controls and assesses policy options.

In Micro:

- Global Competitiveness (Chapter 5) emphasizes how productivity advances enhance competitiveness in increasingly global markets.
- HDTV for \$500? (Chapter 7) illustrates the importance of competitive forces in reducing costs, improving quality, and lowering prices.
- Bees on the Dole (Chapter 14), an op-ed piece written by George Will, examines the politics of farm subsidies.

- Capping CEO Pay (Chapter 15) looks at proposals for limiting the compensation of corporate executives.
- Reslicing the Pie (Chapter 18) examines the distributional and efficiency implications of President Clinton's tax reforms.
- Ending Welfare As We Know It (Chapter 19) assesses President Clinton's proposed welfare reforms.

In International:

- Lowering Trade Barriers (Chapter 20) assesses the impact of emerging trade blocs (EC, NAFTA) and GATT agreements on world trade and global output.
- A Single Eurocurrency? (Chapter 21) examines the problems the EC confronts in forging a monetary union with a single currency.
- Unleashing Entrepreneurship (Chapter 22) introduces Hernando de Soto's "other path" strategy for economic development

These and other discussions are intended to emphasize how economic decisions made today shape the economy of tomorrow.

Integrated News Boxes. Most of the In the News and World View boxes have been updated, of course. In addition, all of the boxed inserts have been augmented with a new "analysis" caption that provides a succinct (one- or two-sentence) spotlight on core concepts. The boxed material is also the subject of end-of-chapter Questions for Discussion and numerical Problems. These changes make the boxed case studies an integral part of the core presentation.

Consolidated Tables and Graphs. *The Microeconomy Today* introduced the device of explicitly synchronized tables and graphs (with lettered rows and corresponding points). That feature has been further developed in this edition with fully consolidated tables, graphs, and annotations. For example, see Figure 3.2.

WHAT'S OLD BUT WORTH SAVING

Although there are lots of new features in the sixth edition, the essential character of *The Microeconomy Today* remains intact. The distinguishing features of this character are the following:

Real World Applications. The Microeconomy Today has never been a repository of fanciful stories about widget manufacturers. In this text, students encounter Steve Jobs and Steve Wozniak as they create the Apple I in Job's family garage. Students learn why IBM and GM have undertaken painful restructurings. The Microeconomy Today is serious about explaining economic principles in real-world settings. That is the acid test of "relevance."

Global Vision. The global perspective of *The Microeconomy Today* is a natural extension of its real-world orientation. Indeed, it is hard to imagine how a text could be relevant to today's economic agenda without explicit and continuous reference to international developments. This global perspective is evident in the World View boxes, many of the *Economy Tomorrow* sections, and the complete international section (Chapters 20–23).

Careful Pedagogy. Economic principles were put to use in designing *The Microeconomy Today*. The opportunity cost of trying to cover everything was crystal clear. Encyclopedic texts leave the average student floundering. The choice made here was to cover less material but cover it thoroughly. The emphasis is on step-by-step development of core concepts, with a generous dose of real-world illustrations.

The emphasis on teaching basic principles is evident in an assortment of pedagogical features, including:

- Clear Graphs All of the graphs are clearly labeled, fully annotated, and highlighted with colors. The time dimension is always included when *flows* are being examined.
- Annotated Tables This shouldn't be a differentiating feature, but it still is. All of the tables in *The Microeconomy Today* include self-contained explanations.
- Running and Repeated Glossary Most other texts have now adopted *The Microeconomy Today*'s pioneering in-margin glossary. This remains, however, the only text that *repeats* in-margin definitions in subsequent chapters. Unfortunately, few people grasp and retain core concepts after only one exposure. *The Microeconomy Today* recognizes this real-world limitation and offers students some additional support. Learning and retention are further encouraged by end-of-chapter key-term reviews and a complete glossary (with chapter references) at the end of the book.
- Motivating Questions Every chapter starts with a few questions to pique student interest. A brief introduction highlights the general coverage of the chapter. This is followed by key questions, which forge a direct link between the introductory illustration and the core objectives of the chapter.

Lively Style

Pedagogy is more than just technique and organization. Style is also important. Dull writing dulls the learning process. The *motivation* to learn must be reinforced with interesting examples, sharp wit, and clever phrases. This isn't a novel but it is a very readable economics text—students actually *enjoy* it.

A COMPLETE TEACHING AND LEARNING PACKAGE

The Microeconomy Today offers a complete and integrated package of tested supplements for teaching and learning. Professors Michael Tansey at Rockhurst College and Lawrence Ziegler at the University of Texas (Arlington), authors of the Study Guide, have been an integral part of the Schiller team for over twelve years. To coordinate with the many changes in the textbook, Professors Tansey and Ziegler have updated their very effective Study Guide. In addition, they have assumed authorship of the all-new Instructor's Resource Manual and the fully expanded Test Bank. Their hard work, extensive teaching experience, and close work with the textbook author ensure both superior quality of the supplements and total integration with the text. The various elements of The Microeconomy Today teaching package include:

For Students

Study Guide. From the student's perspective, the most important of the supplements is the *Study Guide*. The *Study Guide* helps students develop skills in mathematics and the use of economic terminology with the goal of enhancing critical thinking capabilities. Each chapter of the *Study Guide* contains these features: Quick Review; Learning Objectives; Key-Term Review; True-False Questions; Multiple-Choice Questions; Problems and Applications; Media Assignments; Common Errors; and Answers.

Student Software. For those interested in computer-assisted instruction, the following economic software is available:

Macroeconomics: A Lab Course Professor Norris Peterson of Pacific Lutheran University, working with the talented staff at Intellipro, Inc., has created an innovative software package, Macroeconomics: A Lab Course, to be used in macroeconomics courses. Macroeconomics: A Lab Course builds the basic macroeconomic framework in sequential, "building block" laboratory simulations that allow students to grasp the fundamental concepts of macroeconomics in a dynamic and creative manner. The companion software, Microeconomics: A Lab Course, is available as well.

Interactive Graphics Tutorial IV is an updated version of McGraw-Hill's successful economics software program developed by H. Scott Bierman at Carleton College and Todd Proebsting at the University of Arizona. Thousands of students have used the Interactive Graphics Tutorial to further their understanding of basic economic concepts.

Why not make the learning process easier for teachers as well as students? To this end, the following items are available for instructors:

News Flashes. As up-to-date as *The Microeconomy Today* is, it can't foretell the future. As the future becomes the present, however, the author writes News Flashes describing major economic events and relating them to specific text references. Again for this edition, adopters of *The Microeconomy Today* have the option of receiving News Flashes nearly instantaneously via FAX. Four to six News Flashes are sent to adopters each year.

Instructor's Resource Manual. The *Instructor's Resource Manual* has undergone extensive revision. First, it has been produced in a three-ring binder, with software diskettes also available. This will make it easy for users to insert their own class notes and additional materials provided by McGraw-Hill. Instructors also have the option of generating their own outlines for class lectures. Second, the authors have provided a slimmed-down list of annotated references and other instructional aids which may be useful. Third, the new *Instructor's Resource Manual* includes full discussions on how to integrate computer-assisted instruction into the principles course. For each chapter instructors will find:

 A detailed outline of each chapter including all headings, accompanied by page numbers, definitions, titles to tables and titles to figures, as well as brief comments as to the contents of each section.

For Instructors

- A complete list of the Student Learning Objectives which is presented in the *Study Guide*.
- Brief suggestions and materials with which to introduce each chapter and promote student interest.
- A list of the most COMMON ERRORS made by students for each chapter and suggestions for how to avoid them.
- Suggested answers to all discussion questions provided at the end of each chapter in the text.
- Annotated answers to all of the problems provided at the end of each chapter in the text.
- A ready-to-hand-out media exercise which reinforces the CRITICAL THINK-ING approach emphasized in both *The Microeconomy Today* and the *Study Guide*.
- A ready-to-hand-out quiz based on the learning objectives for the chapter.

Test Bank. The Test Bank to Accompany *The Microeconomy Today*, sixth edition, has been reworked and revised in response to reviewers' suggestions. It contains roughly 5,000 classroom-tested multiple-choice and true-false questions. In this edition, all of the questions involving CRITICAL THINKING have been placed in one section at the end of each chapter. All questions are coded as to type and where the topic is covered in the text. Professors Tansey and Ziegler have worked especially hard to ensure that this *Test Bank* is the best ever.

Computerized Testing. Computerized versions of the *Test Bank* are available for both IBM-PC computers and compatibles and MacIntosh computers. The programs allow instructors to view, edit, and test questions to create exams.

Customized Test. Instructors may have tests custom-prepared by the publisher by calling the publisher's special test service. Masters prepared from the *Test Bank* will be mailed within seventy-two hours.

Overhead Transparencies. One hundred of the key tables and graphs in the text have been reproduced as full-color overhead transparency acetates. These are made available to adopters by the publisher.

Videodisks. New to this edition are videodisks designed to harness this exciting new technology for classroom presentation. These videodisks offer an array of graphical illustrations of key economic concepts to further student understanding.

Videos. New videotape materials have been assembled for this edition to illustrate fundamental concepts and economic issues in a manner that will be equally effective in classroom settings or media resource centers. Among these materials is the "McNeil/Lehrer Quarterly Report on Economics," a new series of excerpts from the acclaimed PBS news program, "The McNeil/Lehrer Newshour." Your local McGraw-Hill representative can provide details on the video ancillaries for the text.

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Bradley R. Schiller

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