MACROECONOMICS

Fourth Edition

David N. Hyman

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David N. Hyman
North Carolina State University



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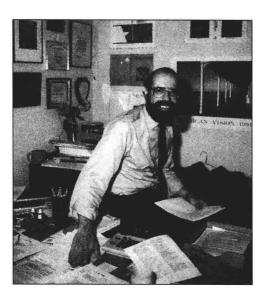
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About the Author

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 on 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 of the past 28 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 collect 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 the flute and working in his garden.

Preface |

Economics is a vital component of any student's education because an understanding of economic principles is essential for success in the modern world. The rapid evolution of global interdependence among both highly industrialized and less developed economies affects students' lives. My goal in writing this book has been to communicate the relevance of economics to everyday life by blending examples and applications with economic theory in each chapter. In this edition I've revised to update information and to consolidate some of the chapters. You will find many new relevant and interesting applications to current events and emerging issues. There is more analysis of both the role of government in our lives and the latest innovations in business management. In this edition every chapter has a set off analysis of a global or international issue to help you understand how the world you live in is changing.

Using the Text

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 Concept Symbols in the margins. 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 question, 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 business and on the competitive environment in which business firms operate. Those that carry the subtitle **Policy Perspective** apply economic principles to policy issues.

The Global Economy 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.

Inside Information highlights the sources and uses of economic information. To effectively operate in the modern world requires information. This feature 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** of professionals with a degree in economics.

When you read the **Prologue** to the text you will begin to see how economic issues affect you. Integrated into the text you will also find interviews with distinguished economists, including some who have been awarded Nobel Prizes, who have studied these issues in depth. As you read these **Insights on Issues** you will have a better idea about how economic policies affect you and the economy. Your instructor might use some of these interviews as a basis of class discussion.

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.

The Study Guide

An excellent Study Guide prepared by Donald P. Maxwell of Central State University, Edmond, Oklahoma, accompanies the text. Each chapter contains learning objectives, a fill-in summary viii Contents

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 up by a mini-exam to check your learning and to help you prepare for taking your exams. Many of the chapters include a news item with questions to help you analyze how economic principles work in the world. Time invested with this invaluable resource will yield maximum returns for you.

Some Tips

- 1. 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.
- 2. 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, Business Week, 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 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.
- 3. 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.
- 4. 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 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 a 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.

5. 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.

David N. Hyman

¹Copies 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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The planning for the fourth edition included a questionnaire that was sent to instructors across the United States and in other countries where this text is used. The response rate was remarkable and provided the information I needed to fine-tune this edition. Although it is impossible to list all of you, I do want to express my appreciation for both your time and your insights.

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D. N. H.

Contents

In Brief

Prologue 1

PART ONE

Introduction to Economics 7

- 1 Economics: What It's All About 9
- 2 Production Possibilities and Opportunity Cost 34

PART TWO

Supply and Demand: Markets and the Price System 55

- 3 Market Transactions: Basic Supply and Demand Analysis 57
- 4 Using Supply and Demand Analysis 81
- 5 The Price System and the Mixed Economy 101

PART THREE

Introduction to Macroeconomic Concepts 129

- 6 Gross Domestic Product and the Performance of the National Economy 131
- 7 Business Cycles, Unemployment, and Economic Growth 158
- 8 The Price Level and Inflation 181

PART FOUR

Aggregate Demand / Aggregate Supply 197

- 9 Aggregate Demand and Aggregate Supply 199
- 10 Aggregate Demand–Aggregate Supply Analysis of Economic Fluctuations and Growth 221
- 11 Keynesian Analysis of Aggregate Purchases 244
- 12 Keynesian Analysis of Macroeconomic Equilibrium 262

PART FIVE

Money, Financial Markets, and Macroeconomic Equilibrium 291

- 13 The Functions of Money 293
- 14 The Banking System 311
- 15 The Federal Reserve System and Its Influence on Money and Credit 333

PART SIX

Stabilizing the Economy 351

- 16 Stabilization of the Economy through Monetary Policy 353
- 17 Stabilization of the Economy through Fiscal Policy 376
- 18 The Federal Budget Deficit and the National Debt 399
- Issues in Stabilization Policy: Inflation versus Unemployment and Rational Expectations 419

PART SEVEN

International Economic Issues 441

- 20 International Trade 443
- 21 The Economics of Foreign Exchange and the Balance of International Trade 466

EPILOGUE

Economic Development and Transition in the 21st Century 489

Appendix: Elasticity of Demand and Supply 501

Glossary 525

Photo Credits 537

Index 539

Contents

Prologue 1

PART ONE

1	ntroc	luction	to Economics	

THE PERSON	The same and the same of the s		Let 8 11	A 1	•
1	Economics:	what	It's All	About	9

Some Basic Definitions 10

The Basic Task of an Economy: Grappling with Scarcity

Opportunity Cost 10

Three Basic Economic Decisions 11

Microeconomics versus Macroeconomics 11

Microeconomics 11

Macroeconomics 12

Positive Analysis versus Normative Analysis 12

Positive Analysis 13

Normative Analysis 13

Principles in Practice: Policy Perspective—The Economics of Drinking, Driving, and Highway

Deaths 13

Gains and Losses from Economic Policies 14

The Global Economy: Protectionism versus Free

International Trade 14

The Economic Way of Reasoning: Models and Marginal Analysis 16

Economic Models 16

Economic Thinkers: Adam Smith 18

Rational Behavior 18

Marginal Analysis of Rational Behavior 19

Graphs: An Aid to Understanding Economics 22

Summary 22

Key Terms 22

Concept Review 23

Problems and Applications 23

Inside Information: Statistical Abstract of the United

States 23

Chapter Supplement: Graphs 25

Production Possibilities and Opportunity Cost

Resources, Technology, and Production Possibilities 35

Technology 35

The Production Possibilities Curve 36

The Law of Increasing Costs 38

Generalizing the Concepts: Peace Dividends and a

Cleaner Environment 39

Productive Efficiency 41

Principles in Practice: Managerial Methods—Coping with Scarcity in the U.S. Automobile Industry 42

Division of Labor and Productive Efficiency 42

Economic Growth: Expanding Production Possibilities 43

Annual Growth in Available Resources 43

Improved Quality of Inputs 44

Improvements in Technology 44

Corporate Downsizing and Production Possibilities 45

Principles in Practice: Personal Budgeting and the

Opportunity Cost of Choices 46

Production for the Present versus Production for the

Future: A Basic Economic Choice 47

The Global Economy: The Gains from International

Trade 48

Scarcity and Trade-Offs 50

Insights on Issues: Do People in the United States Save

Enough of Their Income? 51

Summary 50

Key Terms 52

Concept Review 52

Problems and Applications 52

Inside Information: Economic Report of the President 53

Career Profiles: Sandra Day O'Connor 53

PART TWO

Supply and Demand: Markets and the Price System 55

Market Transactions: Basic Supply and Demand Analysis 57

Markets: Purposes and Functions 58

Demand 58

The Law of Demand and the Market Demand Curve 59

Changes in Relative Price 60

xiv Contents

Changes in Quantity Demanded 61

Especially the Movement Away from Communism Changes in Demand 61 Toward Free Markets in Eastern Europe and the Former Supply 64 Soviet Union, Affect the U.S. Economy? 98 The Law of Supply and the Market Supply Curve 64 Summary 99 Changes in Quantity Supplied 66 Key Terms 99 Changes in Supply 66 Concept Review 99 Market Equilibrium Price and Quantity 68 Problems and Applications 99 Graphic Depiction of Market Equilibrium 68 The Price System and the Mixed Economy 101 Self-Equilibrating Markets 69 The Impact of Changes in Demand on Market Capitalism and the Market Economy 102 Equilibrium 70 Specialization and Exchange 102 The Impact of Changes in Supply on Market Principles in Practice: Property Rights, Transaction Equilibrium 72 Costs, and Pricing 103 Mastering the Art of Supply and Demand Analysis 73 How Production Generates Income in the Market The Global Economy: The Dollar Has Its Price Too! 74 Economy: Circular Flow of Income and Expenditures 104 Principles in Practice: The Market for Medical Services 76 The Price System: How It Works 106 Principles in Practice: Business Brief—The Stock How the Price System Influences What Is Produced 106 Market 78 Principles in Practice: The Entrepreneurial Spirit in Summary 76 American Capitalism 108 Key Terms 79 How the Price System Influences Production Methods 108 Concept Review 79 Who Gets the Goods and Services? 110 Problems and Applications 79 A Recap: The Price System in Motion 110 Using Supply and Demand Analysis 81 Some Common Defects in the Price System 110 Prices, Scarcity, and Marketing Prospects 82 Public Goods and Externalities 110 Nonscarce Goods 82 Externalities and Resource Use 111 How Demand and Supply Conditions Affect the Success Other Common Problems in a Market System 113 of New Products 83 The Modern Mixed and Open Economy 114 Markets for Labor and Credit 84 Government and the Economy 114 Labor Markets 84 The Global Economy: International Trade 116 Principles in Practice: Operation of Labor Markets in Shaping the Role of Government 117 the United States 87 Categorizing Government-Provided Goods 118 Credit Markets: The Demand for and Supply of Principles of Taxation 119 Loanable Funds 87 Tax Equity: Different Points of View 119 Price Ceilings: Using Supply and Demand Analysis to Forecast Their Effects in Markets 88 Insights on Issues: What Role Should Government Play in the Economy? 120 Rent Control 89 Tax Rates: Average and Marginal 121 Nonprice Rationing of Shortages Resulting from Price Ceilings 90 Taxes and Efficiency 122 Price Floors: Supply and Demand Analysis of Their Summary 123 Effects 91 Key Terms 124 Principles in Practice: Policy Perspective—Rent Concept Review 124 Control in New York City 92 Problems and Applications 124 Minimum Wages 92 Inside Information: Getting Information on Financial and Agricultural Price Supports 94 Commodity Markets 125 Price Controls: The Cost of Government Intervention 95 Career Profile: Rhonda Williams 126 The Global Economy: The Transition to Free Markets in the Former Communist Nations 96

Insights on Issues: How Will Changes Abroad,

Contents xv

PART THREE

Introduction to Macroeconomic Concepts 129

6 Gross Domestic Product and the Performance of the National Economy 131

Looking at the Economy from a Macroeconomic Perspective 132

Measuring Aggregate Output: Gross Domestic Product 132

How GDP Is Calculated 133

Intermediate Products and Value Added 133

Principles in Practice: Policy Perspective—The Value-Added Tax 135

Nominal GDP and Real GDP 136

How Good Is GDP as a Measure of National Well-Being? 136

Principles in Practice: Real GDP 138

The Expenditure and Income Components of GDP 140

The Expenditure Components of GDP 140

The Income Side of GDP 142

Principles in Practice: How the Bureau of Economic Analysis Calculates GDP Every Three Months 144

The Economy's Income Statement 144

Other Measures of Aggregate Expenditure and Income 145

The Circular Flow of Expenditure and Income: A Macroeconomic Perspective 148

Leakages and Injections of Purchasing Power and the Demand for U.S. Final Products 150

Flows of Saving and Investment in the United States: Do We Save Enough? 150

How Foreigners Helped Finance U.S. Investment between 1980 and 1994 152

The Global Economy: The Growing Importance of Exports and Imports for the U.S. Economy 153

Insights on Issues: Will Standards of Living in the United States Continue to Improve? 154

Summary 155

Key Terms 156

Concept Review 156

Problems and Applications 157

Business Cycles, Unemployment, and Economic Growth 158

Fluctuations in Real GDP: The Historical Record 159

The Business Cycle 159

Actual Fluctuations and Trend of Real GDP in the United States 160

Principles in Practice: Business Brief—What Is a Recession, and Who Can Predict When One Will Arrive? 162 Unemployment 164

The Unemployment Rate 165

Frictional, Structural, and Cyclical Unemployment 165 The Natural Rate of Unemployment and Potential Real

GDP 167

Principles in Practice: What Influences the Natural Rate of Unemployment? 168

Cyclical Unemployment 169

How Unemployment Varies with the Business Cycle 169

The Costs of Unemployment 170

Cushioning Unemployment Costs 171

The Global Economy: Unemployment: The Worldwide

Outlook for the Year 2000 172

Economic Growth and Its Sources 172

The Sources of Growth 173

Principles in Practice: Rewriting History: New

Measures of Economic Growth 174

Improvements in Productivity 175

Saving, Investment, and Economic Growth 176

The Trade-Off between Current and Future

Consumption 176

Principles in Practice: The Costs versus the Benefits of Economic Growth 177

Recent Trends in Investment and Productivity Growth in the United States 177

Summary 178

Key Terms 179

Concept Review 179

Problems and Applications 179

8 The Price Level and Inflation 181

The Price Level and Inflation 182

The Consumer Price Index 182

Measuring Inflation 183

Changes in the Price Level versus Changes in Relative Prices 183

The GDP Deflator 183

Principles in Practice: Measuring Inflation: Methods and Controversies 184

A History of the Consumer Price Level and Inflation 185

The Distortions and Costs of Price Instability 186

Real Income: Using the CPI to Deflate Nominal Income 186

Nominal Wages versus Real Wages 189

How Inflation Can Redistribute Income and Wealth from Creditors to Debtors 190

Nominal Interest Rates versus Real Interest Rates 191

xvi Contents

> How Price Instability Affects the Performance of the Economy 192 Anticipated Inflation and Economic Decisions 192 Inflationary Distortions in Saving and Investment 192 The Disastrous Effects of Hyperinflation 193 Deflation 194 PART FOUR

The Global Economy: Worldwide Disinflation in the Mid-1990s 194

Summary 195

Key Terms 196

Concept Review 196

Problems and Applications 196

Aggregate Demand/Aggregate Supply 197

Aggregate Demand and Aggregate Supply 199

Aggregate Demand and Aggregate Supply 200

Aggregate Demand 200

Changes in Aggregate Demand 202

Influences on Aggregate Demand 202

Aggregate Supply 205

Segments of the Aggregate Supply Curve 206

Changes in Aggregate Supply 207

Macroeconomic Equilibrium 210

The Results of Unintended Inventory Changes 211

How a Decrease in Aggregate Demand Can Affect the Economy 212

Recessionary GDP Gap 213

How an Increase in Aggregate Demand Can Affect the Economy 213

How a Decrease in Aggregate Supply Can Affect the Economy 215

How an Increase in Aggregate Supply Can Affect the Economy: Resource and Labor Markets 215

Principles in Practice: What Caused the Recession of 1990-1991? 216

A Recap: Economic Fluctuations and Their Causes 217 The Global Economy: Exports and Macroeconomic

Equilibrium 218

Summary 219

Key Terms 220

Concept Review 220

Problems and Applications 220

10 Aggregate Demand-Aggregate Supply Analysis of Economic Fluctuations and Growth 221

Macroeconomic Equilibrium: The Classical Model versus the Keynesian Model 222

The Classical Model of Macroeconomic

Equilibrium 222

The Classical Long-Run Aggregate Supply Curve 225

Economic Thinkers: Jean Baptiste Say and

"Sav's Law" 226

The Keynesian Model of Macroeconomic Equilibrium 227

Principles in Practice: Business Brief-How Long-Term Labor Contracts Prevent Wage Flexibility in the

The Great Depression: Using Aggregate

Demand-Aggregate Supply Analysis to Understand What Happened 228

Why Another Great Depression Is Unlikely 229

The Global Economy: Labor Markets in Western Europe: High, Inflexible Wages and Labor Surpluses 230

An Overheated Economy and Stagflation 232

Wage-Price Spirals in an Overheated Economy 232

Stagflation 233

Supply-Side Shocks 234

Exchange Rates and Macroeconomic Equilibrium 235

Impact of a Higher Dollar on Aggregate Demand 235

Impact of Changes in Exchange Rates on Aggregate Supply 236

Conclusion: The Impact of Changes in Foreign Exchange Rates on Macroeconomic Equilibrium 236

Macroeconomic Equilibrium in a Growing Economy 238

Noninflationary Growth 239

Principles in Practice: U.S. Macroeconomic

Equilibrium, 1970-1994 240

Summary 242

Key Terms 242

Concept Review 242

Problems and Applications 242

11 Keynesian Analysis of Aggregate Purchases 244

The Consumption Function 245

Income and Consumption 245

Other Determinants of Consumption 245

Graphing the Consumption Function 246

Showing the Relationship between Income and

Saving 247

Using a 45-Degree Guideline to Measure Savings 248

The Marginal Propensities to Consume and to Save 249

How Changes in Wealth Can Shift the Consumption

How a Change in Household Debt Outstanding Can Affect Current Consumption 250

Contents xvii

How a Decline in Consumer Spending Intentions Can The Influence of Expectations on Current Cause a Contraction or a Recession 268 Consumption 251 Investment Purchases 251 Economic Thinkers: John Maynard Keynes Investment Demand and the Real Interest Rate 252 The Multiplier: What It Is and How It Works 269 Shifts in Investment Demand 253 The Respending Process 270 Principles in Practice: Personal Consumption and The Multiplier Effect and Macroeconomic Saving in the United States 254 Equilibrium 272 Aggregate Purchases 256 A Formula for the Multiplier 273 Government Purchases and the Influence of Taxes and International Trade, the Government Sector, and Transfers on Spending 256 Macroeconomic Equilibrium 274 The Global Economy: Net Exports 257 Government Purchases, Taxes, International Trade, and Macroeconomic Equilibrium 275 Aggregate Purchases 259 The Global Economy: How a Decline in Exports or an Summary 260 Increase in the Marginal Propensity to Import Can Key Terms 260 Cause a Recessionary GDP Gap 277 Concept Review 260 The Price Level, Aggregate Demand, and Inflationary Problems and Applications 261 Gaps 278 Shifts of the Aggregate Purchases Line Caused by Price 12 Keynesian Analysis of Macroeconomic Changes 278 Equilibrium 262 Deriving the Aggregate Demand Curve 279 Aggregate Purchases and Macroeconomic Principles in Practice: The Multiplier for the Globally Equilibrium 263 Integrated U.S. Economy of the 1990s 280 Keynesian Analysis of Macroeconomic Inflationary GDP Gaps 280 Equilibrium 263 Summary 282 A Graphic Analysis 264 Key Terms 282 Conditions for Macroeconomic Equilibrium 265 Concept Review 282 Keynesian Analysis of Contractions or Recessions 266 Problems and Applications 282 How a Decline in Planned Investment Can Cause Chapter Appendix: A Complete Keynesian Model 284 Equilibrium Real GDP to Fall 266 PART FIVE Money, Financial Markets, and Macroeconomic Equilibrium 291 The Stock of Money, Money Demand, and Interest 13 The Functions of Money 293 Rates 305 What Is Money, and What Are Its Functions? 294 The Effect of an Increase in the Available Money Stock 305 Commodity Money 295 The Effect of a Decrease in the Available Money Fiat Money 295 Stock 306 Principles in Practice: Silver Coins in the How Shifts in Money Demand Can Affect Interest United States 296 Rates 306 Checkable Deposits as a Form of Money 296 The Need to Understand Changes in the Money What Money Is Not 297 Stock 307 Measuring the Stock of Money 298 The Global Economy: Eurodollars 308 Measuring the Money Stock: M1 298 Summary 309 Adding Near Money to M1: M2 298 Key Terms 309 Principles in Practice: What's New in Money—An Concept Review 309 Electronic Revolution 299 Problems and Applications 310 The Demand for Money 301 Transaction Demand for Money 301 14 The Banking System 311 Money as an Asset 302

Banking 312

The Evolution of Banking 312

The Money Demand Curve 301

Changes in Money Demand 303

Fractional Reserve Banking 312

How Banks Make Loans and Create Checkable Deposits 313

How a Bank Accepts Deposits and Makes Loans 313

Making Loans: Deposit Creation by a Single Bank 315

How Checks Drawn on Newly Created Deposits Affect an Individual Bank's Balance Sheet 316

Multiple Expansion of the Money Stock for the Entire Banking System 317

The Money Creation Process 318

The Reserve Multiplier 318

Deposit Contraction: The Process in Reverse 320

Bank Demand for Excess Reserves 321

The Federal Funds Market 322

Principles in Practice: Business Brief-Nonbank

Financial Intermediaries 323

Bank Portfolio Management 324

Principles in Practice: Deposit Insurance and Bank

Failures 324

The Future of Banking 326

Principles in Practice: Managerial Methods-Using

Balance Sheets 327

Insights on Issues: How Solid Is the U.S. Financial

System? 328

The Global Economy: International Banking and the

Global Economy 328

Toward Understanding How the Money Supply

Changes 330

Summary 330

Key Terms 331

Concept Review 331

Problems and Applications 331

15 The Federal Reserve System and Its Influence on Money and Credit 333

The Federal Reserve System 334

The Federal Reserve System: How It Is Organized 334

Is the Fed Independent of Political Interference? 335

The Fed's Influence on the Monetary Base 336

Control of Required Reserve Ratios 337

Discount Policy: The Fed as Lender of Last Resort 338

How Open Market Sales of Government Securities by the Fed Affect Bank Reserves 339

How Open Market Purchases of Government Securities Affect Bank Reserves 340

A Recap: The Operations of the Federal Open Market Committee 340

Principles in Practice: The Fed's Open Market Operations 341

Securities Prices, Interest Rates, and the Monetary Base 342

Money Supply, Money Demand, and Equilibrium Interest Rates 344

How the Fed Influences the Supply Curve of Money and the Equilibrium Interest Rate 346

The Global Economy: International Operations of the Fed 347

The Power of the Fed 347

Summary 347

Key Terms 348

Concept Review 348

Problems and Applications 348

Inside Information: Beige, Blue, and Green Books: How Monetary Authorities in the United States Compile Information to Examine Stabilization Policy 349

PART SIX

Stabilizing the Economy 351

16 Stabilization of the Economy Through Monetary Policy 353

Stabilization and Monetary Policy 354

Money and Short-Term Macroeconomic Equilibrium 354

Short-Term Impact of Monetary Policy 354

Interest Rates and Aggregate Demand 355

Using an Expansionary Monetary Policy to Eliminate a Recessionary GDP Gap 357

How Effective Is Monetary Policy in Increasing Aggregate Demand? 358

Using a Contractionary Monetary Policy to Prevent the Economy from Overheating 359

Principles in Practice: Policy Perspective—Monetary Policy during the Great Depression 361 Money, Real GDP, Prices, and Monetary Policy 361

Principles in Practice: Business Brief—Monetary Policy, Real Interest Rates, and the Yield Curve 362

The Concept of Income Velocity of Circulation of Money 362

The Equation of Exchange 364

Using the Equation of Exchange to Understand Money's Role in the Economy 364

Monetary Policy: Implications of the Classical Quantity Theory 365

Lags in Monetary Policy 367

Monetarism 367

Monetary Policy in the United States since 1942 368

Economic Thinkers: Milton Friedman 370

Monetary Policy since 1990 371

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