

Contents

Acknowledgments — VII

About the Author — IX

Preface — XI

Chapter 1

Introduction to Global Macroeconomics — 1

The Basics — 1

Three Major Macroeconomic Markets — 3

Business Uses of Macroeconomic Analyses — 5

Macroeconomic Analysis for Economists and Policymakers — 7

Let's Begin! — 8

The Rest of the Story — 8

Four Major Business Planning Documents — 8

Conclusion — 10

Key Points — 11

Review Questions — 11

Discussion Questions — 12

Chapter 2

Taking an Economic Pulse — 13

The Basics — 13

Nominal Gross Domestic Product — 13

Shortcomings of GDP as a Measure of Economic Health — 16

Circular Flow Diagram — 17

Macroeconomic Equilibrium — 25

The Rest of the Story — 27

A Second Way to View Macroeconomic Equilibrium — 27

Using the Circular Flow to Explain Recessions — 29

How Do Governments Actually Calculate GDP and GDI? — 31

Gross National Product — 34

Underground Economies — 36

Conclusion — 38

Key Points — 38

Review Questions — 39

Discussion Questions — 41

Chapter 3

Labor Market Conditions — 43

The Basics — 44

- Who Uses Labor Market Information? — 44
- Measuring Employment and Unemployment — 46
- Four Types of Unemployment — 51
- Strengths and Weaknesses of Labor Market Measures — 55
- Final Comments on Interpreting Unemployment Rate and
Employment-to-Population Ratio — 59

The Rest of the Story — 60

- Other Labor Market Measures — 60
- If Only I Could Be a Fly on the Wall — 63
- Natural Rate of Unemployment — 65
- Outsourcing, Offshoring, and Reshoring — 66
- Conclusion — 71
- Key Points — 72
- Review Questions — 74
- Discussion Questions — 74

Chapter 4

Inflation and Real GDP — 77

The Basics — 77

- What Is Inflation? — 77
- Inflation Measures — 79
- What Is Price Stability? — 82
- Real Versus Nominal GDP — 83

The Rest of the Story — 85

- Weaknesses of the CPI — 85
- Conclusion — 88
- Key Points — 89
- Review Questions — 90
- Discussion Question — 90

Chapter 5

Inflation: Who Wins, and Who Loses? — 91

The Basics — 91

- Inflation Diminishes Purchasing Power — 91
- Framing the Inflation Issue — 92

Debtors Versus Creditors —	94
Businesses Versus Workers —	99
Governments Versus Taxpayers —	100
Does Inflation Hurt Retirees? —	101
Does Inflation Hurt the Nation as a Whole? —	102
The Rest of the Story —	104
Indexation —	104
How to Profit from a Negative Real Interest Rate —	106
Calculating Nominal Interest Rates with the Precise Formula —	107
Estimating Market Expectations about Future Inflation —	108
Inflation and the Cost of Higher Education —	110
Conclusion —	111
Key Terms —	111
Review Questions —	112
Discussion Questions —	113

Chapter 6

Monetary Aggregates — 115

The Basics —	115
Commodity Money Versus Fiat Money —	115
Functions of Money —	117
Why Do Nations Measure Their Money Supplies? —	118
Monetary Aggregates —	120
The Rest of the Story —	126
U.S. Monetary Aggregates —	126
Financial Assets Included in the U.S. M1 and M2 Money Supplies —	128
Conclusion —	131
Key Points —	131
Review Questions —	132
Discussion Questions —	133

Chapter 7

Financial Intermediation — 135

The Basics —	135
Financial Intermediaries —	135
Overview of a Typical Bank's Balance Sheet —	139
Check Clearing —	146
The Rest of the Story —	149
Financial Disintermediation —	149
International Check Clearing —	152

Check Clearing and Company Cash Management — **153**

Causes of Bank Failures — **155**

Conclusion — **157**

Key Points — **158**

Review Questions — **159**

Discussion Questions — **160**

Chapter 8

Money Creation — 161

The Basics — **161**

Creation of Money by a Single Bank — **161**

Money Creation by the Banking System — **171**

The Rest of the Story — **178**

Preferred Asset Ratios and the M1 and M2 Money Multipliers — **178**

Conclusion — **187**

Key Points — **187**

Review Questions — **188**

Discussion Questions — **191**

Chapter 9

Central Banks — 193

The Basics — **193**

Financial Regulation Versus Monetary Policy — **193**

$M2 \equiv M2 \text{ Money Multiplier} \times \text{Monetary Base}$ — **194**

Guideline #1: Above the Line/Below the Line — **195**

Monetary Tools of the Central Bank — **199**

Monetary Tools in Action — **213**

Lags in Monetary Policy — **214**

Summary of “The Basics” — **215**

The Rest of the Story — **216**

Central Banking: A Balance Sheet View — **216**

Can a Central Bank Become Insolvent? — **222**

Macroprudential Regulations — **223**

Monetary Policy Targets — **224**

Monetary Effects of Central Bank Foreign Exchange Market
Intervention — **230**

Central Banks Around the World — **234**

Conclusion — **237**

Key Points — **238**

Review Questions —	240
Discussion Questions —	241

Chapter 10

Real Credit Markets — 243

The Basics — 243

Clarifying Financial Markets —	243
Inverse Relationship Between Debt Prices and Interest Yield —	245
Cost of Real Credit —	245
Determining Credit's Real Cost and Quantity Per Period —	251
Shifts in the Supply and Demand for Real Credit —	257
Real Credit Market Examples —	266

The Rest of the Story — 273

Can Central Banks Set Interest Rates? —	273
Conclusion —	275
Key Points —	276
Review Questions —	278
Discussion Questions —	279

Chapter 11

The Economics of Cryptocurrencies — 281

The Basics — 281

Legal Tender, Fiat, Digital, and Cryptocurrencies —	281
Buying, Selling, and Using Cryptocurrencies —	283
Blockchain, Altcoins, and Enterprise Distributed Ledger Technology —	286
Cryptocurrency Exchange Rate Determination —	288
Cryptocurrencies and Monetary Policies —	291
Taxation and Government Regulation —	293
Are Cryptocurrencies “Money”? —	294
National and Central Bank Digital Currencies —	299
The Future of Cryptocurrencies —	302

The Rest of the Story — 304

Bitcoin —	304
Conclusion —	307
Key Points —	309
Review Questions —	310
Discussion Questions —	310

Chapter 12

Real Goods and Services Markets — 313

The Basics — 313

Aggregate Supply Curve — 313

Aggregate Demand Curve — 322

Macroeconomic Equilibrium — 328

Don't Confuse Price Level Increases with Increasing Inflation — 330

Spending Multiplier — 331

Applications — 336

The Rest of the Story — 340

Demand Pull, Cost Push, and Spiral Inflation — 340

Short-Run Phillips Curve — 344

Hyperinflation and Deflation — 346

Actual Quantity Supplied Always Equals Actual Quantity

Demanded — 350

Why Does a Nation's Aggregate Demand Slope Downward? — 352

Conclusion — 356

Key Points — 358

Review Questions — 359

Discussion Questions — 361

Chapter 13

Fiscal Policy — 363

The Basics — 364

What Is Fiscal Policy? — 364

Taxes and Other Sources of Government Revenues — 365

Government Deficits, Surpluses, and Debts — 366

The Fiscal Multiplier, Crowding-Out, and Crowding-In — 373

Government Surpluses — 377

Automatic Stabilizers — 378

Fiscal Policy in Action — 380

Lags in Fiscal Policy — 381

Monetary Effects of Fiscal Policy — 382

The Rest of the Story — 384

Putting Government Debt into Perspective — 384

A Closer Look at Monetary Effects of Fiscal Policy — 387

Greece: Consequences of a Misestimated Fiscal Multiplier — 391

Structural Versus Cyclical Deficits and Surpluses — 392

Crowding-Out: When Is It Complete, Nonexistent, or Partial? — 400

Conclusion — 403

Key Points —	404
Review Questions —	405
Discussion Questions —	406

Chapter 14

Business Cycles — 409

The Basics — 409

What Are Business Cycles? —	409
How Are Business Cycles Measured? —	409
What Causes Business Cycles? —	411

The Rest of the Story — 415

U.S. Business Cycles —	415
U.S. Business Cycles from 1947 to 2019 —	417
Conclusion —	422
Key Points —	423
Review Questions —	423
Discussion Question —	424

Chapter 15

Foreign Exchange Basics — 425

The Basics — 425

Exchange Rates —	425
The Foreign Exchange Market —	427
Participants in the Foreign Exchange Market —	432
Checking Accounts Never Leave the Country —	436
Spot Foreign Exchange Market —	438

The Rest of the Story — 439

Understanding Spot Foreign Exchange Quotations —	439
Buying and Selling Foreign Exchange: Bid and Ask Rates —	440
The Major Segments of the Foreign Exchange Market —	444
Conclusion —	446
Key Points —	447
Review Questions —	448
Discussion Question —	449

Chapter 16

Foreign Exchange Markets — 451

The Basics — 451

Measuring a Currency's Value —	451
Bilateral Versus Effective Exchange Rates —	452

Nominal Versus Real Exchange Rates —	453
How Are Exchange Rates Determined? —	461
What Causes Exchange Rates to Change? —	471

The Rest of the Story — 482

International Exchange Rate Systems —	482
To Fix or Not to Fix, That is the Question —	486
What Is the European Monetary Union? —	489
Should There Be One Global Currency? —	490
Conclusion —	492
Key Points —	493
Review Questions —	495
Discussion Questions —	496

Chapter 17

Balance of Payments — 499

The Basics — 499

What Is the Balance of Payments? —	499
Major Parts of the Balance of Payments —	500
Balance of Payments Identity —	510
Net Export Identity —	511

The Rest of the Story — 517

Balance of Payments Measures —	517
Are Current Account Deficits Harmful or Beneficial? —	521
Frequently Asked Questions about the Balance of Payments —	524
The Balance of Payments and Double-Entry Bookkeeping —	525
Understanding IMF Balance of Payments Reports —	528
Conclusion —	535
Key Points —	536
Review Questions —	537
Discussion Questions —	542

Chapter 18

Putting It All Together — 543

The Basics — 543

The Three-Sector Model and Common Sense —	543
Integrating Macroeconomic Markets —	545
Conclusion —	559
Key Points —	560
Review Questions —	561

Chapter 19

Shocks to Nations with Flexible Exchange Rates — 563

The Basics — 563

Effects of Expansionary Fiscal Policy — 563

Effects of Expansionary Monetary Policy — 585

The Rest of the Story — 598

Feedback Effects in the Three-Sector Model — 598

A Second Look at Expansionary Fiscal Policy with Low Mobility

International Capital Markets — 602

Conclusion — 603

Key Points — 604

Review Questions — 605

Discussion Questions — 611

Chapter 20

Shocks to Nations with Fixed Exchange Rates — 615

The Basics — 615

Why Do Nations Choose Fixed Exchange Rates? — 615

How Do Nations Fix Their Exchange Rates? — 617

Effects of Expansionary Fiscal Policy — 623

Effects of Expansionary Monetary Policy — 639

The Rest of the Story — 647

Balance of Payments Accounting and Central Bank Intervention — 647

Conclusion — 652

Key Points — 653

Review Questions — 653

Discussion Questions — 657

Chapter 21

Causes, Cures, and Consequences of the Great Recession — 659

The Basics — 661

Measures of Economic Devastation — 661

U.S. Housing Market and the Great Recession — 662

Fixing the Credit and Goods and Services Markets — 676

Wall Street Reform and Consumer Protection Act — 685

More Than a Decade Later, Is Our Financial System Safer? — 687

Were U.S. Monetary and Fiscal Policies Effective? — 689

Did the Bailout Earn the U.S. Government a Return? — 689

The Next Financial Crisis — 690

Paradoxes of the Great Recession — 690

Conclusion — 697

The Rest of the Story — 698

Fannie Mae and Freddie Mac — 698

Securitization: From Mortgage Origination to Security Sales — 701

Using Taxpayer Money to Bail Out the Rich — 704

Chronology of Major Events: 2007–2009 — 704

Acts That Deregulated the U.S. Financial Industry — 707

Abridged Chronology of U.S. Government Actions: 2007–2009 — 708

Abridged Chronology of Federal Reserve and Federal Deposit

Insurance Corporation Actions: 2007–2009 — 710

Key Points — 711

Review Questions — 712

Discussion Questions — 713

Chapter 22

Long-Term Growth and Development — 715

The Basics — 715

Scenario Planning — 715

Economic Growth and Development — 716

Economic Growth and the Importance of Compounding — 722

Government's Role in Economic Development — 723

Comparative Advantage — 725

The Rest of the Story — 732

A Country Is Not a Company — 732

Conclusion — 737

Key Points — 739

Review Questions — 740

Discussion Question — 741

Chapter 23

Long-Term Inflation, Exchange Rates, and Unemployment — 743

The Basics — 744

Phillips Curve and the Natural-Rate Hypothesis — 744

Equation of Exchange — 753

Monetarism and the Quantity Theory of Money — 756

Long-Term Changes in Exchange Rates — 764

**Linking Purchasing Power Parity Theory and Quantity Theory of
Money — 769**

The Rest of the Story — 771

How Well Does PPP Predict Exchange Rates? — **771**
Income Velocity Versus Transactions Velocity — **774**
Conclusion — **775**
Key Points — **777**
Review Questions — **778**
Discussion Questions — **780**

Appendix A List of Abbreviations — 781

Appendix B Important Terms and Concepts — 785

Index — 791