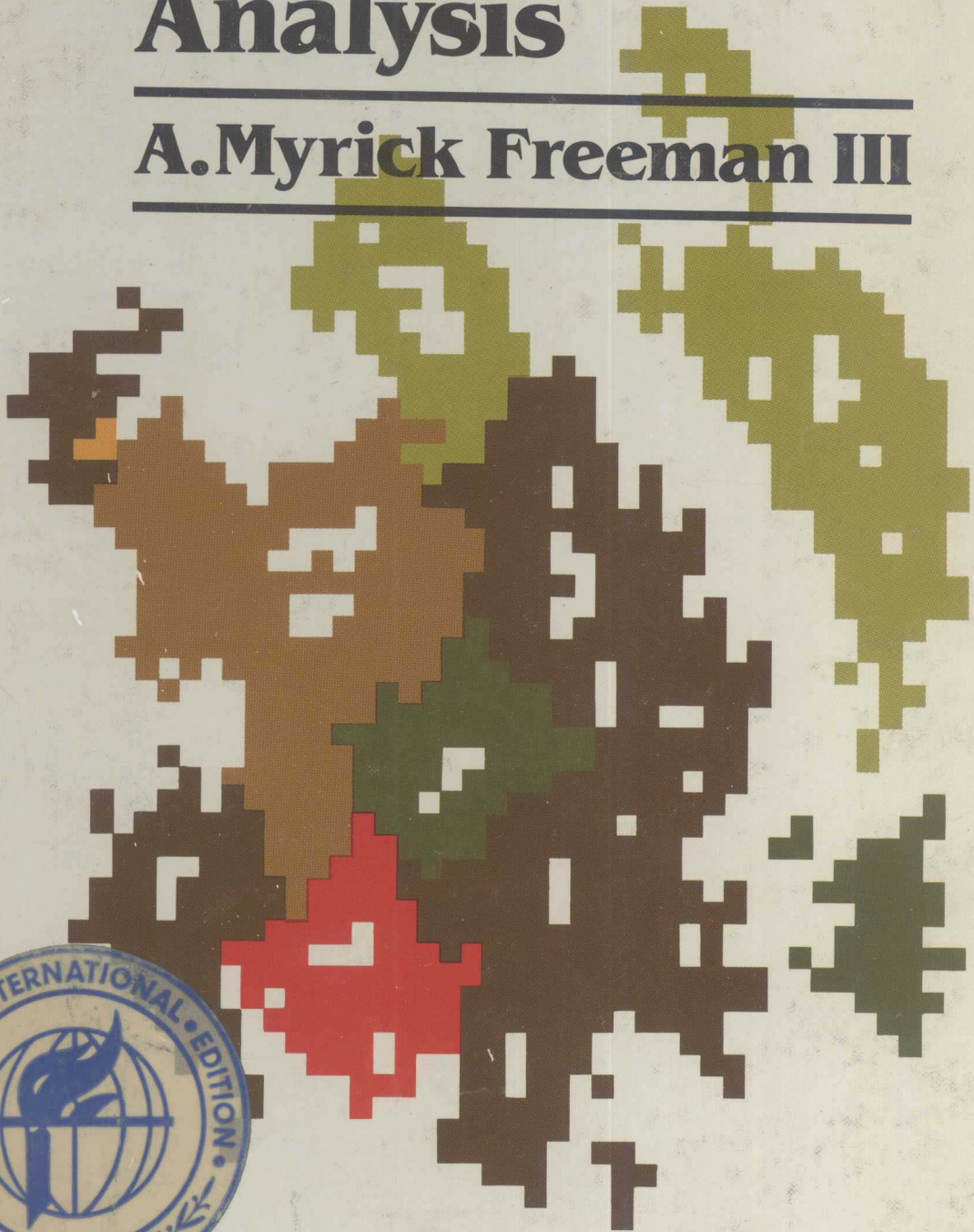

Intermediate Microeconomic Analysis

A. Myrick Freeman III



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BOWDOIN COLLEGE



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Intermediate Microeconomic Analysis

Preface

There are four key features of this book that I believe make it different from and better than other microeconomic texts and in combination will make it attractive to teachers of the intermediate micro course.

First, *Intermediate Microeconomic Analysis* emphasizes economic reasoning as a process for deriving testable hypotheses about economic behavior and empirically relevant behavioral relationships such as demand and supply functions. The method employed for deriving these relationships is comparative statics.

Second, throughout the book there is continuing discussion of the normative analysis of the outcomes of economic processes, especially the proposition that perfect competition leads to Pareto optimality. The topics considered include the concept of consumer surplus as a basis for measuring changes in individual welfare, economic efficiency, the social cost of monopoly, and the normative implications of marginal productivity theory. There is also an extensive discussion of efficiency and equity in the two chapters on welfare economics.

Third, I show that microeconomics is not just about prices and market equilibria, but also about how societies deal with their resource allocation problems in general. In order to emphasize this point, I have followed a different set of organizing principles from those governing most current textbooks. In Chapters 3 to 5 I have introduced just enough production theory and preference theory to derive the production box, the production possibilities curve, and the exchange box for a two-person, two-good, two-factor economy. This model makes it possible to describe the three tasks that any economic system must accomplish: determining what to produce, how to produce it, and who gets the output. This discussion of the resource allocation problem is general in that there is no reference to any specific form of economic institution.

Next, I examine economic efficiency as a basis for evaluating alternative resource

allocations, the nature of shadow prices and their role in achieving an efficient allocation, and the market system as an institution for translating shadow prices into market signals to guide the economic choices of individuals and firms. After the stage has been set and the economic problem posed in this way, I then consider preference and demand theory, production and cost theory, perfect competition, factor prices, monopoly, and so forth.

My experience in teaching intermediate microeconomics by following this organization has been successful. The early chapters provide a context within which the students can deal with the specifics of demand theory, production theory, and so forth. And they have a clearer picture of the basic normative issues concerning efficiency and equity as they come across topics such as consumer sovereignty, consumer surplus, perfect competition, and market power.

However, in view of the fact that not all instructors may care to follow this order of the material, I have provided alternative syllabi for utilizing this text for teaching a more conventionally organized course. These syllabi are presented after this Preface.

The fourth key feature of this text is an effort to draw some of the major connections between microeconomic analysis and macroeconomics. Specifically, the chapter on capital and the interest rate includes a model of individual savings behavior in which the choice between saving and consumption today is shown to be a function of the interest rate and income. The simple Keynesian consumption function is shown as a special case of this model in which the substitution and income effects of an interest rate change cancel out. And the positive marginal propensity to save out of current income follows from the fact that future consumption is a normal good. Second, the demand for funds to pursue investment projects is shown to depend not only on the interest rate but also upon expectations about the future monetary returns from investment. The Keynesian theory emphasizes the variability of these expectations. Finally there is a discussion of unemployment in the context of a model of the market for labor in which the wage rate serves to equate the quantity demanded and the quantity supplied.

In organizing and writing this book, I have tried to convey the idea that microeconomics is not just a set of analytical techniques and theorems. Rather, it is a valuable way of achieving a better understanding of the functioning of modern capitalist economies. Microeconomics also provides a way of analyzing economic problems in a variety of other economic institutional settings, for example, planning and resource allocation problems in socialist economies, resource allocation to the public sector, and so forth.

I have also raised several issues that are not always treated in conventional microeconomics texts. These issues include the question of how individual preferences are formed and influenced and the implications of preference modification for the positive and normative analysis of demand; the nature of the firm, the reasons for its existence, and alternative views concerning the behavior of the firm as an economic institution; the role of property rights and transactions costs in market economies; and the normative implications of the marginal productivity theory of factor prices.

The exposition in this book is primarily verbal and graphical. I have resorted to simple algebra in explaining some relationships such as the individual's budget con-

straint and as a shorthand notation for expressing behavioral relationships such as demand and supply functions. Short mathematical appendixes to many of the chapters show the use of the calculus in deriving some of the principal relationships and hypotheses. These appendixes are optional.

My thanks go to those individuals who helped me during the preparation of this book, especially my editor, John Greenman, and several colleagues, for their valuable advice; Richard K. Hay, who read a preliminary version of the manuscript and made significant suggestions; and Richard Dye, Peter Gottschalk, Robert Haveman, and Philip Sorenson, for their comments on parts of the manuscript. The great effort and care given by Jini Linkovich in typing the manuscript through several drafts are much appreciated.

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Georgetown, Maine
December 1982

Alternative Course Syllabi

A key feature of this book is the presentation of the general problem of resource allocation and distribution in a two-person, two-good, two-factor economy before the detailed treatment of demand, production, competition, and so forth. I recognize that many instructors will prefer to retain the conventional organization of the material in which the general equilibrium model is introduced at the end of the course primarily as a basis for the analysis of Pareto optimality and welfare economics. For this reason, I have also prepared alternative sequences of reading assignments for those who wish to follow the conventional organization with either demand theory first or, as some instructors prefer, production theory first. The book has been written so that either alternative sequence can be followed without serious loss of continuity.

CONVENTIONAL ORGANIZATION WITH DEMAND THEORY FIRST

Introduction

- Chapter 1. What Is Economics?
- Chapter 2. Some Analytical Concepts
- Chapter 6. Markets and Exchange

Competitive Markets

- Chapter 4, Preferences, section on "Preference Orderings" (an introduction to indifference curves)
- Chapter 7. Preferences and Demand
- Chapter 8. Market Demand; Topics
- Chapter 3, Production, section on "The Production Function" (an introduction to isoquants)

- Chapter 9. The Firm and Production
- Chapter 10. Cost
- Chapter 11. Prices and Outputs in Competition
- Chapter 12. Marginal Productivity and Factor Prices
- Chapter 13. Capital

Market Power

- Chapter 15. Monopoly
- Chapter 16. Oligopoly and Monopolistic Competition

General Equilibrium and Welfare

- Chapter 3, Production, sections on “Production with Two Goods” and “The Production Possibilities Frontier”
- Chapter 4, Preferences, section on “A Simple Two-Person Economy”
- Chapter 5. *Economic Efficiency*
- Chapter 14. The General Equilibrium of a Competitive Economy
- Chapter 17. Competition and Efficiency
- Chapter 18. Equity and Social Welfare

**CONVENTIONAL ORGANIZATION WITH PRODUCTION THEORY
FIRST****Introduction**

- Chapter 1. What Is Economics?
- Chapter 2. Some Analytical Concepts
- Chapter 6. Markets and Exchange

Competitive Markets

- Chapter 3, Production, section on “The Production Function” (an introduction to isoquants)
- Chapter 9. The Firm and Production
- Chapter 4, Preferences, section on “Preference Orderings” (an introduction to indifference curves)
- Chapter 7. Preferences and Demand
- Chapter 8. Market Demand; Topics
- Chapter 10. Cost
- Chapter 11. Prices and Outputs in Competition
- Chapter 12. Marginal Productivity and Factor Prices
- Chapter 13. Capital

Market Power

- Chapter 15. Monopoly
- Chapter 16. Oligopoly and Monopolistic Competition

General Equilibrium and Welfare

Chapter 3, Production, section on “Production with Two Goods,” and “The Production Possibilities Frontier”

Chapter 4, Preferences, section on “A Simple Two-Person Economy”

Chapter 5. Economic Efficiency

Chapter 14. The General Equilibrium of a Competitive Economy

Chapter 17. Competition and Efficiency

Chapter 18. Equity and Social Welfare

Contents

PREFACE	xi
ALTERNATIVE COURSE SYLLABI	xv
<hr/>	
PART I. Introduction	1
<hr/>	
1. What Is Economics?	3
THE SUBJECT MATTER OF ECONOMICS	3
THEORY AND MODELS IN MICROECONOMICS	11
THE COMPETITIVE MARKET SYSTEM: AN OVERVIEW	14
SUMMARY	16
KEY CONCEPTS	16
QUESTIONS AND PROBLEMS	17
SUPPLEMENTARY READINGS	17
2. Analytical Concepts: Optimization, Equilibrium, and Comparative Statics	19
LANGUAGES FOR ANALYSIS	20
OPTIMIZATION	23
EQUILIBRIUM	28
COMPARATIVE STATIC ANALYSIS	32
SUMMARY	34
KEY CONCEPTS	35
QUESTIONS AND PROBLEMS	35
SUPPLEMENTARY READINGS	36
MATHEMATICAL APPENDIX TO CHAPTER 2	36

PART II. The Economic Problem: Allocating Scarce Resources	41
3. The Allocation of Resources in Production	43
THE PRODUCTION FUNCTION	44
PRODUCTION WITH TWO GOODS	57
THE PRODUCTION POSSIBILITIES FRONTIER	60
SUMMARY	64
KEY CONCEPTS	64
QUESTIONS AND PROBLEMS	64
MATHEMATICAL APPENDIX TO CHAPTER 3	66
4. Preferences and the Allocation of Goods to Individuals	68
PREFERENCE ORDERINGS	68
A SIMPLE TWO-PERSON ECONOMY	76
SUMMARY	79
KEY CONCEPTS	80
QUESTIONS AND PROBLEMS	80
5. Resource Allocation and Economic Efficiency	81
THE CRITERION OF ECONOMIC EFFICIENCY	82
THE CONDITIONS FOR PARETO OPTIMALITY	82
EFFICIENCY AND PRICES	87
SUMMARY	90
KEY CONCEPTS	90
QUESTIONS AND PROBLEMS	90
SUPPLEMENTARY READINGS	91
PART III. The Competitive Market System	93
6. An Introduction to Markets and Exchange	95
CONDITIONS FOR EFFECTIVE MARKETS	96
MARKET STRUCTURES	102
SUMMARY	104
KEY CONCEPTS	105
QUESTIONS AND PROBLEMS	105
SUPPLEMENTARY READINGS	105
7. Individual Preferences and the Theory of Demand	106
PREFERENCE FORMATION AND CONSUMER SOVEREIGNTY	107
THE INDIVIDUAL'S EQUILIBRIUM	110
THE COMPARATIVE STATICS OF INDIVIDUAL DEMAND	118

CHANGES IN PRICE: A CLOSER LOOK	134
UTILITY THEORY AND DEMAND: AN ALTERNATIVE APPROACH	143
SUMMARY	150
KEY CONCEPTS	151
QUESTIONS AND PROBLEMS	151
SUPPLEMENTARY READINGS	152
MATHEMATICAL APPENDIX TO CHAPTER 7	153
8. Market Demand: Topics and Applications	156
THE MARKET DEMAND FUNCTION	156
PRICE ELASTICITY AND MARGINAL REVENUE	159
MEASURING DEMAND	170
CONSUMER SURPLUS AND WELFARE MEASUREMENT	176
INDEX NUMBERS	184
IMPLICIT PRICES	189
ADDITIONAL CONSTRAINTS ON CHOICE	194
SUMMARY	201
KEY CONCEPTS	202
QUESTIONS AND PROBLEMS	202
SUPPLEMENTARY READINGS	205
MATHEMATICAL APPENDIX TO CHAPTER 8	206
9. The Theory of the Firm and Production	209
THE NATURE AND BEHAVIOR OF THE FIRM	209
OPTIMUM PRODUCTION PROCESSES	215
SOME PRODUCTION FUNCTIONS AND THEIR PROPERTIES	222
TECHNOLOGICAL CHANGE AND PRODUCTIVITY GROWTH	232
SOME ECONOMICS OF NATIONAL DEFENSE	237
SUMMARY	239
KEY CONCEPTS	240
QUESTIONS AND PROBLEMS	240
SUPPLEMENTARY READINGS	242
MATHEMATICAL APPENDIX TO CHAPTER 9	242
10. The Analysis of Costs	245
CONCEPTS OF COSTS	245
FROM THE PRODUCTION FUNCTION TO COST CURVES	250
MEASURING COST FUNCTIONS AND RETURNS TO SCALE	268
APPLICATIONS	271
SUMMARY	275
KEY CONCEPTS	276

QUESTIONS AND PROBLEMS	277
SUPPLEMENTARY READINGS	278
MATHEMATICAL APPENDIX TO CHAPTER 10	279
11. Price and Output in Competitive Markets	280
INTRODUCTION	280
THE THEORY OF THE FIRM	281
THE INDUSTRY	287
COMPETITION AND ECONOMIC EFFICIENCY	293
SOME COMPARATIVE STATIC ANALYSES	295
SUMMARY	300
KEY CONCEPTS	301
QUESTIONS AND PROBLEMS	301
SUPPLEMENTARY READINGS	305
MATHEMATICAL APPENDIX TO CHAPTER 11	305
12. Marginal Productivity and Factor Prices in Competition	306
MARGINAL PRODUCTIVITY AND INCOME DISTRIBUTION	306
THE DEMAND FOR A FACTOR	311
FACTOR SUPPLY	316
SOME APPLICATIONS	338
MARGINAL PRODUCTIVITY THEORY: AN EVALUATION	347
SUMMARY	349
KEY CONCEPTS	350
QUESTIONS AND PROBLEMS	350
SUPPLEMENTARY READINGS	352
13. Capital Markets: Savings, Investment, and Allocation over Time	353
WHAT IS CAPITAL?	353
THE ARITHMETIC OF CAPITAL AND TIME	355
THE PRESENT VALUE CRITERION FOR INVESTMENT	358
THE MARKET FOR LOANABLE FUNDS	361
SOME APPLICATIONS AND EXTENSIONS	374
SUMMARY	377
KEY CONCEPTS	378
QUESTIONS AND PROBLEMS	378
SUPPLEMENTARY READINGS	380
14. The General Equilibrium of the Competitive Economy	381
INTRODUCTION	381
THE MODEL	382
A COMPARATIVE STATIC APPLICATION	387

SUMMARY	388
QUESTIONS AND PROBLEMS	389
SUPPLEMENTARY READINGS	389
<hr/>	
PART IV. Market Power	391
<hr/>	
15. Prices and Quantities in Monopoly Markets	393
INTRODUCTION	393
MONOPOLY IN THE PRODUCT MARKET	394
THE MONOPOLIST'S DEMAND FOR FACTORS	418
MONOPSONY: THE SINGLE BUYER WITH MARKET POWER	420
BILATERAL MONOPOLY	427
SUMMARY	428
KEY CONCEPTS	428
QUESTIONS AND PROBLEMS	429
SUPPLEMENTARY READINGS	431
MATHEMATICAL APPENDIX TO CHAPTER 15	432
16. Oligopoly and Monopolistic Competition: The Economics of Interdependence	436
INTRODUCTION	436
MODELS OF INTERDEPENDENCE	438
MONOPOLISTIC COMPETITION	455
SUMMARY	460
KEY CONCEPTS	460
QUESTIONS AND PROBLEMS	460
SUPPLEMENTARY READINGS	462
MATHEMATICAL APPENDIX TO CHAPTER 16	462
<hr/>	
PART V. Welfare Economics	465
<hr/>	
17. Welfare Economics: Competition and Efficiency	467
COMPETITION AND PARETO OPTIMALITY	468
MARKET FAILURE	472
THE MANY PARETO OPTIMUMS	485
SUMMARY	488
KEY CONCEPTS	489
QUESTIONS AND PROBLEMS	489
18. Equity and Social Welfare	491
SOCIAL WELFARE FUNCTIONS	491
THE PRINCIPLES OF APPLIED WELFARE ECONOMICS	505
THE MARKET SYSTEM AND WELFARE	513

SUMMARY	516
KEY CONCEPTS	517
QUESTIONS AND PROBLEMS	518
SUPPLEMENTARY READINGS	519
Glossary	521
Answers to End-of-Chapter Questions	529
Index of Names	547
Index of Subjects	549

PART I

Introduction