## Contents

Preface xviii

**Part 1: Introduction to Financial Management**

### CHAPTER 1

**Getting Started—Principles of Finance** 2

**PRINCIPLE 1:** Money Has a Time Value  
**PRINCIPLE 2:** There Is a Risk-Return Tradeoff  
**PRINCIPLE 3:** Cash Flows Are the Source of Value  
**PRINCIPLE 4:** Market Prices Reflect Information

1.1 Finance: An Overview 4
- What Is Finance? 4
- Why Study Finance? 4

1.2 Three Types of Business Organizations 5
- Sole Proprietorship 5
- Partnership 6
- Corporation 7
- How Does Finance Fit into the Firm’s Organizational Structure? 8

1.3 The Goal of the Financial Manager 9
- Maximizing Shareholder Wealth 9
- Ethical and Agency Considerations in Corporate Finance 10

1.4 The Four Basic Principles of Finance 11
- Principle 1: Money Has a Time Value 12
- Principle 2: There Is a Risk-Return Tradeoff 12
- Principle 3: Cash Flows Are the Source of Value 13
- Principle 4: Market Prices Reflect Information 13

Chapter Summary 14

Study Questions 16

Appendix: The Wall Street Journal Workplace-Ethics Quiz 16

### CHAPTER 2

**Firms and the Financial Market** 18

**PRINCIPLE 2:** There Is a Risk-Return Tradeoff  
**PRINCIPLE 4:** Market Prices Reflect Information

2.1 The Basic Structure of the U.S. Financial Markets 20

2.2 The Financial Marketplace: Financial Institutions 20
- Commercial Banks: Everyone’s Financial Marketplace 21
- Non-Bank Financial Intermediaries 22
- Investment Companies 23
- THE BUSINESS OF LIFE: Controlling Costs in Mutual Funds 25

2.3 The Financial Marketplace: Securities Markets 26
- How Securities Markets Bring Corporations and Investors Together 26
- Types of Securities 27
- FINANCE IN A FLAT WORLD: Where’s the Money around the World 30

Chapter Summary 33

Study Questions 35
## CHAPTER 3
Understanding Financial Statements, Taxes, and Cash Flows  
36

**PRINCIPLE 1:** Money Has a Time Value  
**PRINCIPLE 3:** Cash Flows Are the Source of Value  
**PRINCIPLE 4:** Market Prices Reflect Information

<table>
<thead>
<tr>
<th>3.1 An Overview of the Firm’s Financial Statements</th>
<th>38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Financial Statements</td>
<td>38</td>
</tr>
<tr>
<td>Why Study Financial Statements?</td>
<td>39</td>
</tr>
<tr>
<td>What Are the Accounting Principles Used to Prepare Financial Statements?</td>
<td>39</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.2 The Income Statement</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income Statement of H. J. Boswell, Inc.</td>
<td>40</td>
</tr>
<tr>
<td>Connecting the Income Statement and Balance Sheet</td>
<td>42</td>
</tr>
<tr>
<td>Interpreting Firm Profitability Using the Income Statement</td>
<td>42</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.3 Corporate Taxes</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computing Taxable Income</td>
<td>45</td>
</tr>
<tr>
<td>Federal Income Tax Rates for Corporate Income</td>
<td>45</td>
</tr>
<tr>
<td>Marginal and Average Tax Rates</td>
<td>46</td>
</tr>
<tr>
<td>Dividend Exclusion for Corporate Stockholders</td>
<td>46</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.4 The Balance Sheet</th>
<th>47</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Balance Sheet of H. J. Boswell, Inc.</td>
<td>47</td>
</tr>
<tr>
<td>Firm Liquidity and Net Working Capital</td>
<td>50</td>
</tr>
<tr>
<td>Debt and Equity Financing</td>
<td>51</td>
</tr>
<tr>
<td>Book Values, Historical Costs, and Market Values</td>
<td>53</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.5 The Cash Flow Statement</th>
<th>55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sources and Uses of Cash</td>
<td>56</td>
</tr>
<tr>
<td>H. J. Boswell’s Cash Flow Statement</td>
<td>58</td>
</tr>
</tbody>
</table>

**FINANCE IN A FLAT WORLD:** GAAP vs. IFRS 58

**Chapter Summary** 62  
**Study Questions** 65  
**Self-Test Problems** 66  
**Study Problems** 69  
**Mini-Case** 72

## CHAPTER 4
Financial Analysis—Sizing Up Firm Performance  
74

**PRINCIPLE 3:** Cash Flows Are the Source of Value  
**PRINCIPLE 4:** Market Prices Reflect Information

<table>
<thead>
<tr>
<th>4.1 Why Do We Analyze Financial Statements?</th>
<th>76</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>4.2 Common Size Statements: Standardizing Financial Information</th>
<th>77</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Common Size Income Statement: H. J. Boswell, Inc.</td>
<td>77</td>
</tr>
<tr>
<td>The Common Size Balance Sheet: H. J. Boswell, Inc.</td>
<td>78</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4.3 Using Financial Ratios</th>
<th>79</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquidity Ratios</td>
<td>79</td>
</tr>
<tr>
<td>Capital Structure Ratios</td>
<td>84</td>
</tr>
<tr>
<td>Asset Management Efficiency Ratios</td>
<td>85</td>
</tr>
<tr>
<td>Profitability Ratios</td>
<td>88</td>
</tr>
<tr>
<td>Market Value Ratios</td>
<td>94</td>
</tr>
</tbody>
</table>

**THE BUSINESS OF LIFE:** Your Cash Budget and Personal Savings Ratio 96  
**FINANCE IN A FLAT WORLD:** Ratios and International Accounting Standards 98  
Summing Up the Financial Analysis of H. J. Boswell, Inc. 99
Part 2: Valuation of Financial Assets

CHAPTER 5
Time Value of Money—The Basics 126
   PRINCIPLE 1: Money Has a Time Value
   5.1 Using Timelines to Visualize Cash Flows 128
   5.2 Compounding and Future Value 130
       Compound Interest and Time 131
       Compound interest and the Interest Rate 131
       Techniques for Moving Money through Time 131
       Applying Compounding to Things Other Than Money 133
       Compound Interest with Shorter Compounding Periods 133
       THE BUSINESS OF LIFE: Saving for Your First House 137
   5.3 Discounting and Present Value 137
       The Mechanics of Discounting Future Cash Flows 138
       Two Additional Types of Discounting Problems 140
       The Rule of 72 141
   5.4 Making Interest Rates Comparable 144
       Calculating the Interest Rate and Converting It to an EAR 146
       To the Extreme: Continuous Compounding 146
       FINANCE IN A FLAT WORLD: Financial Access at Birth 147
   Chapter Summary 148
   Study Questions 150
   Self-Test Problems 151
   Study Problems 153
   Mini-Case 157

CHAPTER 6
The Time Value of Money—Annuities and Other Topics 158
   PRINCIPLE 1: Money Has a Time Value
   PRINCIPLE 3: Cash Flows Are the Source of Value
   6.1 Annuities 160
       Ordinary Annuities 160
       Amortized Loans 168
       Annuities Due 169
       THE BUSINESS OF LIFE: Saving for Retirement 172
   6.2 Perpetuities 173
       Calculating the Present Value of a Level Perpetuity 173
       Calculating the Present Value of a Growing Perpetuity 173
   6.3 Complex Cash Flow Streams 176
10.2 The Comparables Approach to Valuing Common Stock 312
Defining the P/E Ratio Valuation Model 312
What Determines the P/E Ratio for a Stock? 313
An Aside on Managing for Shareholder Value 316
A Word of Caution about P/E Ratios 316

10.3 Preferred Stock 317
Features of Preferred Stock 317
Valuing Preferred Stock 318
A Quick Review: Valuing Bonds, Preferred Stock, and Common Stock 319

10.4 The Stock Market 322
Organized Exchanges 322
Over-the-Counter (OTC) Market 323

Chapter Summary 324
Study Questions 326
Self-Test Problems 327
Study Problems 329
Mini-Case 331

Part 3: Capital Budgeting

CHAPTER 11
Investment Decision Criteria 332
PRINCIPLE 1: Money Has a Time Value
PRINCIPLE 2: There Is a Risk-Return Tradeoff
PRINCIPLE 3: Cash Flows Are the Source of Value

11.1 An Overview of Capital Budgeting 334
The Typical Capital-Budgeting Process 335
What Are the Sources of Good Investment Projects? 335
Types of Capital Investment Projects 335

11.2 Net Present Value 336
Why Is NPV the Right Criterion? 337
Calculating an Investment's NPV 337
Independent versus Mutually Exclusive Investment Projects 338

11.3 Other Investment Criteria 344
Profitability Index 344
Internal Rate of Return 345
Modified Internal Rate of Return 354
Payback Period 355
THE BUSINESS OF LIFE: Higher Education as an Investment in Yourself 356
Discounted Payback Period 357
Summing Up the Alternative Decision Rules 358

11.4 A Glance at Actual Capital-Budgeting Practices 360
Chapter Summary 362
Study Questions 365
Self-Test Problems 365
Study Problems 369
Mini-Cases 375

CHAPTER 12
Analyzing Project Cash Flows 378
PRINCIPLE 3: Cash Flows Are the Source of Value

12.1 Identifying Incremental Cash Flows 380
Guidelines for Forecasting incremental Cash Flows 381
14.1 The Cost of Capital: An Overview 454
Investor's Required Return and the Firm's Cost of Capital 455
WACC Equation 455
Three-Step Procedure for Estimating Firm WACC 456

14.2 Determining the Firm's Capital Structure Weights 458

14.3 Estimating the Cost of Individual Sources of Capital 460
The Cost of Debt 461
The Cost of Preferred Equity 461
The Cost of Common Equity 464

14.4 Summing Up: Calculating the Firm's WACC 470
Use Market-Based Weights 470
Use Market-Based Opportunity Costs 470
Use Forward-Looking Weights and Opportunity Costs 471

14.5 Estimating Project Costs of Capital 471
The Rationale for Using Multiple Discount Rates 471
Why Don't Firms Typically Use Project Costs of Capital? 472
Estimating Divisional WACC 472
Divisional WACC: Estimation Issues and Limitations 473

FINANCE IN A FLAT WORLD: Why Do Interest Rates Differ Between Countries? 474

14.6 Flotation Costs and Project NPV 475
WACC, Flotation Costs, and NPV 476

Chapter Summary 479
Study Questions 481
Self-Test Problems 482
Study Problems 485
Mini-Case 489

Part 4: Capital Structure and Dividend Policy

CHAPTER 15
Capital Structure Policy 490
PRINCIPLE 2: There Is a Risk-Return Tradeoff
PRINCIPLE 3: Cash Flows Are the Source of Value

15.1 A Glance at Capital Structure Choices in Practice 492
Defining a Firm's Capital Structure 492
Financial Leverage 494
How Do Firms in Different Industries Finance Their Assets? 494

15.2 Capital Structure Theory 495
A First Look at the Modigliani and Miller Capital Structure Theorem 495
Yogi Berra and the M&M Capital Structure Theory 497
Capital Structure, the Cost of Equity, and the Weighted Average Cost of Capital 497
Why Capital Structure Matters in Reality 499
Making Financing Choices When Managers Are Better Informed than Shareholders 504
Managerial Implications 505

15.3 Why Do Capital Structures Differ across Industries? 506

15.4 Making Financing Decisions 507
Benchmarking the Firm's Capital Structure 507
Evaluating the Effect of Financial Leverage on Firm Earnings per Share 508
Can the Firm Afford More Debt? 515
Survey Evidence: Factors That Influence CFO Debt Policy 516

FINANCE IN A FLAT WORLD: Capital Structures around the World 517
Chapter Summary 518
Study Questions 520
Self-Test Problems 522
Study Problems 525
Mini-Case 529
Appendix: Demonstrating the Modigliani and Miller Theorem 530

CHAPTER 16

Dividend Policy 534

PRINCIPLE 1: Money Has a Time Value
PRINCIPLE 3: Cash Flows Are the Source of Value
PRINCIPLE 4: Market Prices Reflect Information

16.1 How Do Firms Distribute Cash to Their Shareholders? 536
Cash Dividends 537
Stock Repurchases 538
Personal Tax Considerations: Dividend versus Capital Gains Income 539
Non-Cash Distributions: Stock Dividends and Stock Splits 539

16.2 Does Dividend Policy Matter? 540
The Irrelevance of the Distribution Choice 540
Why Dividend Policy Is Important 546
THE BUSINESS OF LIFE: The Importance of Dividends 549

16.3 Cash Distribution Policies in Practice 549
Stable Payout 549
Residual Dividend Payout Policy 553
Other Factors Playing a Role in How Much to Distribute 553
FINANCE IN A FLAT WORLD: Dividends Abroad 554

Chapter Summary 555
Study Questions 557
Self-Test Problem 558
Study Problems 559
Mini-Case 561

PART 5: Liquidity Management and Special Topics in Finance

CHAPTER 17

Financial Forecasting and Planning 562

PRINCIPLE 2: There Is a Risk-Return Tradeoff

17.1 An Overview of Financial Planning 564

17.2 Developing a Long-Term Financial Plan 565
Financial Forecasting Example: Ziegen, Inc. 566
THE BUSINESS OF LIFE: Your Personal Budget 571

17.3 Developing a Short-Term Financial Plan 574
Example Cash Budget: Melco Furniture, Inc. 574
Uses of the Cash Budget 574

Chapter Summary 576
Study Questions 577
Self-Test Problems 578
Study Problems 581
Mini-Case 587
CHAPTER 20
Corporate Risk Management 648

PRINCIPLE 2: There Is a Risk-Return Tradeoff

20.1 Five-Step Corporate Risk Management Process 650
- Step 1: Identify and Understand the Firm's Major Risks 650
- Step 2: Decide Which Types of Risks to Keep and Which to Transfer 651
- Step 3: Decide How Much Risk to Assume 651
- Step 4: Incorporate Risk into All the Firm's Decisions and Processes 651
- Step 5: Monitor and Manage the Risks the Firm Assumes 652

20.2 Managing Risk with Insurance Contracts 653
- Types of Insurance Contracts 653
- Why Purchase Insurance? 653
- THE BUSINESS OF LIFE: Do You Need Life Insurance? 654

20.3 Managing Risk by Hedging with Forward Contracts 654
- Hedging Commodity Price Risk Using Forward Contracts 655
- Hedging Currency Risk Using Forward Contracts 655

20.4 Managing Risk with Exchange-Traded Financial Derivatives 659
- Futures Contracts 660
- Options Contracts 661

20.5 Valuing Options and Swaps 667
- The Black-Scholes Option Pricing Model 668
- Swap Contracts 672

Chapter Summary 674
Study Questions 676
Self-Test Problems 677
Study Problems 680
Mini-Case 682

Appendices A-1
Glossary G-1
Indexes I-1