



# Personal Finance

Jeff Madura

Edition

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# **PERSONAL FINANCE**

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*To Mary*

# PERSONAL FINANCE



**JEFF MADURA**

Florida Atlantic University

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# BRIEF CONTENTS

Preface.....	xxxv
Financial Literacy Pre-Test.....	1
Chapter 1 Overview of a Financial Plan.....	3
<b>PART 1 TOOLS FOR FINANCIAL PLANNING</b>	
Chapter 2 Planning with Personal Financial Statements.....	34
Chapter 3 Applying Time Value Concepts.....	69
Chapter 4 Using Tax Concepts for Planning.....	93
<b>PART 2 MANAGING YOUR LIQUIDITY</b>	
Chapter 5 Banking and Interest Rates.....	130
Chapter 6 Managing Your Money.....	155
Chapter 7 Assessing and Securing Your Credit.....	179
Chapter 8 Managing Your Credit.....	205
<b>PART 3 PERSONAL FINANCING</b>	
Chapter 9 Personal Loans.....	234
Chapter 10 Purchasing and Financing a Home.....	265
<b>PART 4 PROTECTING YOUR WEALTH</b>	
Chapter 11 Auto and Homeowner's Insurance.....	310
Chapter 12 Health and Disability Insurance.....	345
Chapter 13 Life Insurance.....	375
<b>PART 5 PERSONAL INVESTING</b>	
Chapter 14 Investing Fundamentals.....	404
Chapter 15 Investing in Stocks.....	431
Chapter 16 Investing in Bonds.....	455
Chapter 17 Investing in Mutual Funds.....	477
Chapter 18 Asset Allocation.....	505
<b>PART 6 RETIREMENT AND ESTATE PLANNING</b>	
Chapter 19 Retirement Planning.....	532
Chapter 20 Estate Planning.....	557
<b>PART 7 SYNTHESIS OF FINANCIAL PLANNING</b>	
Chapter 21 Integrating the Components of a Financial Plan.....	576
Financial Literacy Post-Test.....	599
Appendix A Your Career.....	601
Appendix B Projects.....	617
Appendix C Financial Tables.....	623
Index.....	633
Credits.....	653



# DETAILED CONTENTS

Preface.....	xxxv
Financial Literacy Pre-Test .....	1
<b>Chapter 1 Overview of a Financial Plan.....</b>	<b>3</b>
<b>How You Benefit from Personal Finance .....</b>	<b>4</b>
Make Your Own Financial Decisions .....	4
Judge the Advice of Financial Advisers.....	5
Become a Financial Adviser.....	5
<b>Components of a Financial Plan.....</b>	<b>5</b>
A Plan for Your Budgeting and Tax Planning .....	5
A Plan to Manage Your Liquidity .....	7
A Plan for Your Financing.....	7
A Plan for Protecting Your Assets and Income .....	7
A Plan for Your Investing.....	8
A Plan for Your Retirement and Estate.....	8
Building Your Own Financial Plan .....	8
<b>How Financial Plan Decisions Affect Your Cash Flows .....</b>	<b>8</b>
Part 1: Tools for Financial Planning .....	9
Part 2: Managing Your Liquidity.....	9
Part 3: Personal Financing .....	10
Part 4: Protecting Your Wealth.....	10
Part 5: Personal Investing .....	11
Part 6: Retirement and Estate Planning .....	12
Summary of Financial Plan Components.....	12
Integration of the Financial Plan Components.....	13
How Psychology Affects Your Financial Plan.....	14
<b>Developing the Financial Plan.....</b>	<b>16</b>
Step 1. Establish Your Financial Goals .....	16
Step 2. Consider Your Current Financial Position.....	16
Step 3. Identify and Evaluate Alternative Plans That Could Achieve Your Goals.....	20
Step 4. Select and Implement the Best Plan for Achieving Your Goals.....	20
Step 5. Evaluate Your Financial Plan .....	21
Step 6. Revise Your Financial Plan.....	21
<b>Summary .....</b>	<b>23</b>
Review Questions.....	23
Financial Planning Problems.....	24
Financial Planning Online Exercise.....	25
Psychology of Personal Finance: Your Spending Behavior.....	25

Video Exercise: Benefits of Financial Planning .....	25
<b>Building Your Own Financial Plan</b> .....	26
<b>The Sampsons—A Continuing Case</b> .....	26

## **PART 1 TOOLS FOR FINANCIAL PLANNING**

---

<b>Chapter 2 Planning with Personal Financial Statements</b> .....	34
<b>Personal Cash Flow Statement</b> .....	35
Cash Inflows.....	35
Cash Outflows.....	35
Creating a Personal Cash Flow Statement .....	35
<b>Factors That Affect Cash Flows</b> .....	37
Factors Affecting Cash Inflows .....	37
Factors Affecting Cash Outflows .....	38
<b>Creating a Budget</b> .....	39
Anticipating Cash Shortages .....	41
Assessing the Accuracy of the Budget .....	41
Forecasting Net Cash Flows over Several Months .....	41
Creating an Annual Budget.....	42
Improving the Budget .....	43
<b>Personal Balance Sheet</b> .....	45
Assets .....	45
Liabilities .....	46
Net Worth .....	46
Creating a Personal Balance Sheet .....	47
Changes in the Personal Balance Sheet .....	48
How Cash Flows Affect the Personal Balance Sheet .....	50
Impact of the Economy on the Personal Balance Sheet .....	50
Analysis of the Personal Balance Sheet .....	51
<b>How Budgeting Fits Within Your Financial Plan</b> .....	52
Discussion Questions.....	54
<b>Summary</b> .....	54
Review Questions.....	54
Financial Planning Problems .....	55
Financial Planning Online Exercises .....	57
Psychology of Personal Finance: Your Cash Outflows.....	58
Video Exercise: Budgeting .....	58
<b>Building Your Own Financial Plan</b> .....	58
<b>The Sampsons—A Continuing Case</b> .....	59

<b>Chapter 3</b>	<b>Applying Time Value Concepts</b> .....	69
	<b>Importance of Time Value of Money</b> .....	70
	<b>Future Value of a Dollar Amount</b> .....	70
	Using the Future Value Table.....	71
	Impact of a Longer Period .....	72
	Impact of a Higher Interest Rate.....	72
	Using a Financial Calculator to Compute Future Value .....	72
	The Power of Compounding .....	74
	The Future Value of Debt.....	74
	Twisted Logic About Long-Term Debt.....	74
	<b>Present Value of a Dollar Amount</b> .....	75
	Using the Present Value Table.....	75
	Using a Financial Calculator to Compute Present Value .....	75
	<b>Future Value of an Annuity</b> .....	76
	Using the Future Value Annuity Table .....	77
	Using a Financial Calculator to Compute FVA .....	78
	<b>Present Value of an Annuity</b> .....	79
	Using the Present Value Annuity Table.....	79
	Using a Financial Calculator to Compute PVA.....	80
	<b>Using Time Value to Estimate Savings</b> .....	80
	Estimating the Future Value from Savings .....	80
	Estimating the Annual Savings That Will Achieve a Future Amount .....	81
	How Time Value Can Motivate Saving .....	81
	<b>How Saving Fits Within Your Financial Plan</b> .....	81
	Discussion Questions.....	83
	<b>Summary</b> .....	83
	Review Questions.....	83
	Financial Planning Problems .....	84
	Financial Planning Online Exercises .....	85
	Psychology of Personal Finance: Future Value of Your Cash.....	85
	Video Exercise: How Your Savings Grows.....	86
	Building Your Own Financial Plan .....	86
	The Sampsons—A Continuing Case.....	86
<b>Chapter 4</b>	<b>Using Tax Concepts for Planning</b> .....	93
	<b>Background on Taxes</b> .....	94
	Tax Law Changes.....	94
	Social Security and Medicare Taxes.....	95
	Personal Income Taxes .....	96
	<b>Filing Status</b> .....	96

<b>Gross Income</b> .....	99
Wages and Salaries .....	99
Interest Income .....	99
Dividend Income .....	99
Capital Gains.....	99
Determining Gross Income.....	101
Adjusted Gross Income.....	101
<b>Deductions and Exemptions</b> .....	104
Standard Deduction .....	104
Itemized Deductions.....	104
Exemptions .....	107
<b>Taxable Income and Taxes</b> .....	107
Taxable Income.....	107
Calculating Taxes .....	107
Tax Credits.....	109
<b>How Tax Planning Fits Within Your Financial Plan</b> .....	111
Discussion Questions.....	114
<b>Summary</b> .....	114
Review Questions.....	115
Financial Planning Problems.....	115
Financial Planning Online Exercises .....	116
Psychology of Personal Finance: Your Taxes .....	117
Video Exercise: Tax Saving Tips.....	117
Building Your Own Financial Plan .....	117
The Sampsons—A Continuing Case.....	118
Part 1: Brad Brooks—A Continuing Case.....	118

## **PART 2 MANAGING YOUR LIQUIDITY**

<b>Chapter 5 Banking and Interest Rates</b> .....	130
<b>Types of Financial Institutions</b> .....	131
Depository Institutions.....	131
Nondepository Institutions .....	132
Financial Conglomerates .....	133
<b>Banking Services Offered</b> .....	133
Checking Services.....	133
Check Float.....	136
Credit Card Financing.....	136
Debit Cards.....	136
Safety Deposit Boxes .....	137
Automated Teller Machines (ATMs) .....	137

Cashier’s Checks ..... 137

Money Orders ..... 138

Traveler’s Checks ..... 138

**Selecting a Financial Institution** ..... 138

Criteria Used to Select a Financial Institution ..... 138

**Interest Rates on Deposits and Loans** ..... 139

Risk-Free Rate ..... 140

Risk Premium ..... 140

Comparing Interest Rates and Risk ..... 141

Term Structure of Interest Rates ..... 142

Loan Rates ..... 142

**Why Interest Rates Change** ..... 144

Shift in Monetary Policy ..... 144

Shift in the Government Demand for Funds ..... 145

Shift in the Business Demand for Funds ..... 145

**How Banking Services Fit Within Your Financial Plan** ..... 146

Discussion Questions ..... 147

**Summary** ..... 147

Review Questions ..... 147

Financial Planning Problems ..... 148

Financial Planning Online Exercises ..... 149

Psychology of Personal Finance: Paying Your Bills ..... 149

Video Exercise: Banking Tips ..... 150

**Building Your Own Financial Plan** ..... 150

**The Sampsons—A Continuing Case** ..... 150

**Chapter 6 Managing Your Money** ..... 155

**Background on Money Management** ..... 156

Liquidity ..... 156

Adequate Return ..... 157

**Money Market Investments** ..... 157

Checking Account ..... 157

NOW Account ..... 158

Savings Deposit ..... 159

Certificate of Deposit ..... 159

Money Market Deposit Account (MMDA) ..... 160

Treasury Bills ..... 161

Money Market Funds (MMFs) ..... 162

Asset Management Account ..... 163

Comparison of Money Market Investments ..... 163

**Risk of Money Market Investments** ..... 164

Credit Risk ..... 164

Interest Rate Risk ..... 164

Liquidity Risk.....	165
Impact of Expected Economic Conditions on Liquidity Needs.....	165
<b>Risk Management</b> .....	165
Risk Assessment of Money Market Investments .....	166
Optimal Allocation of Money Market Investments .....	166
<b>How Money Management Fits Within Your Financial Plan</b> .....	169
Discussion Questions.....	170
<b>Summary</b> .....	170
Review Questions.....	170
Financial Planning Problems .....	171
Financial Planning Online Exercises.....	172
Psychology of Personal Finance: Forced Savings.....	173
Video Exercise: Investing in Money Markets .....	173
<b>Building Your Own Financial Plan</b> .....	173
<b>The Sampsons—A Continuing Case</b> .....	173
<b>Chapter 7 Assessing and Securing Your Credit</b> .....	179
<b>Background on Credit</b> .....	180
Types of Credit.....	180
Advantages of Using Credit.....	180
Disadvantages of Using Credit.....	181
Credit Rights .....	182
Credit History .....	183
Credit Insurance.....	183
<b>Credit Bureaus</b> .....	183
Credit Reports Provided by Credit Bureaus.....	184
Credit Score .....	184
Different Scores Among Bureaus.....	187
Interpreting Credit Scores.....	187
Reviewing Your Credit Report.....	188
<b>Identity Theft: A Threat to Your Credit</b> .....	189
The Cost of Identity Theft .....	190
Identity Theft Tactics.....	190
Protecting Against Identity Theft .....	192
Response to Identity Theft.....	194
<b>How Credit Assessment and Security Fits Within Your Financial Plan</b> .....	197
<b>Summary</b> .....	197
Review Questions.....	198
Financial Planning Problem.....	199
Financial Planning Online Exercises.....	199
Psychology of Personal Finance: Paying Off Credit Card Debt.....	199
Video Exercise: Improving Your Credit .....	200

Building Your Own Financial Plan ..... 200  
 The Sampsons—A Continuing Case ..... 200

**Chapter 8 Managing Your Credit** ..... 205

**Credit Cards** ..... 206  
 Advantages of Credit Cards ..... 206  
 Disadvantages of Credit Cards ..... 206  
 Applying for a Credit Card ..... 207

**Characteristics of Credit Cards** ..... 208  
 Providers of Credit Cards ..... 208  
 Credit Limit ..... 209  
 Overdraft Protection ..... 209  
 Annual Fee ..... 209  
 Incentives to Use the Card ..... 209  
 Grace Period ..... 210  
 Interest Rate ..... 210  
 Cash Advances ..... 211

**Finance Charges** ..... 211  
 Average Daily Balance Method ..... 211  
 Previous Balance Method ..... 211  
 Adjusted Balance Method ..... 211

**Estimating Credit Repayment** ..... 212  
 Impact of Interest Rate on the Amount You Owe ..... 213  
 Impact of Financing Period on Credit Payments ..... 213  
 Using Calculators to Estimate Repayment ..... 214

**Credit Card Statement** ..... 215

**Regulation of Credit Cards** ..... 216  
 Credit CARD Act ..... 216  
 Bureau of Consumer Financial Protection ..... 217

**Tips on Using Credit Cards** ..... 217  
 Use a Credit Card Only If You Can Cover the Bill ..... 217  
 Impose a Tight Credit Limit ..... 218  
 Reduce Credit Limit When the Economy Weakens ..... 218  
 Pay Credit Card Bills Before Investing Money ..... 219  
 Pay Off Credit Card Debt Before Other Debt ..... 220  
 Avoid Credit Repair Services ..... 220  
 Resolving an Excessive Credit Balance ..... 220

**How Credit Management Fits Within Your Financial Plan** ..... 221  
 Discussion Questions ..... 222

**Summary** ..... 222  
 Review Questions ..... 222  
 Financial Planning Problems ..... 223

Financial Planning Online Exercises .....	224
Psychology of Personal Finance: Using Your Credit Cards .....	225
Video Exercise: Tips on Using Credit Cards .....	225
Building Your Own Financial Plan .....	225
The Sampsons—A Continuing Case .....	226
Part 2: Brad Brooks—A Continuing Case .....	226

## **PART 3 PERSONAL FINANCING**

<b>Chapter 9 Personal Loans</b> .....	234
<b>Background on Personal Loans</b> .....	235
Sources of Personal Loans .....	235
Determining Whether a Loan Is Sensible .....	235
The Personal Loan Process .....	236
<b>Interest Rates on Personal Loans</b> .....	238
Annual Percentage Rate .....	238
Simple Interest .....	239
Add-On Interest .....	240
<b>Car Loans</b> .....	241
How Much Money to Spend on a Car? .....	241
Selecting the Car .....	243
Negotiating the Price .....	245
Financing Decisions .....	247
<b>Purchase Versus Lease Decision</b> .....	248
<b>Student Loans</b> .....	250
<b>Home Equity Loans</b> .....	250
Credit Limit on a Home Equity Loan .....	250
Interest Rate .....	251
<b>Payday Loans</b> .....	252
Reasons to Avoid Payday Loans .....	253
Alternatives to Payday Loans .....	253
<b>How Personal Loans Fit Within Your Financial Plan</b> .....	253
Discussion Questions .....	254
<b>Summary</b> .....	254
Review Questions .....	255
Financial Planning Problems .....	256
Financial Planning Online Exercises .....	257
Psychology of Personal Finance: Your Car Loan .....	259
Video Exercise: Applying for a Personal Loan .....	259
Building Your Own Financial Plan .....	259
The Sampsons—A Continuing Case .....	259



**Chapter 10 Purchasing and Financing a Home** ..... 265

**How Much Can You Afford?** ..... 266

        Affordable Down Payment..... 266

        Affordable Monthly Mortgage Payments ..... 266

**Selecting a Home** ..... 268

        Relying on a Real Estate Agent ..... 268

        Using Online Realtor Services..... 268

        Criteria Used to Select a Home ..... 268

**Valuation of a Home**..... 270

        Market Analysis ..... 270

        Economic Impact on Home Values..... 270

        Impact of the Financial Crisis on Home Values ..... 271

        Effects of Business Activity and Zoning Laws..... 273

        Obtaining a Second Opinion on Your Valuation ..... 273

        Negotiating a Price ..... 273

**Transaction Costs of Purchasing a Home** ..... 274

        Down Payment ..... 274

        Closing Costs ..... 275

**Financing with a Fixed-Rate Mortgage** ..... 276

        Amortization Table ..... 276

        Impact of the Mortgage Amount on the Monthly Payment ..... 277

        Impact of the Interest Rate on the Monthly Payment..... 278

        Impact of the Mortgage Maturity on the Monthly Payment ..... 279

        Estimating the Monthly Mortgage Payment ..... 279

**Financing with Adjustable-Rate Mortgages** ..... 281

        Initial Rate ..... 282

        Interest Rate Index..... 282

        Frequency of Rate Adjustments ..... 282

        Caps on Adjustable-Rate Mortgages..... 283

        Financing with a Fixed-Versus an Adjustable-Rate Mortgage ..... 283

**Decision to Own Versus Rent a Home** ..... 283

        Estimating the Total Cost of Renting and Owning ..... 284

**Special Types of Mortgages** ..... 287

        Graduated Payment Mortgage ..... 287

        Balloon Payment Mortgage ..... 287

        Interest-Only Mortgage ..... 287

**Mortgage Refinancing** ..... 287

        Rate Modification ..... 288

        Refinancing Analysis ..... 288

**How a Mortgage Fits Within Your Financial Plan** ..... 289

        Discussion Questions..... 290

<b>Summary</b> .....	290
Review Questions.....	291
Financial Planning Problems.....	292
Financial Planning Online Exercises.....	293
Psychology of Personal Finance: Buying Your Home .....	295
Video Exercise: Purchasing a Home .....	295
<b>Building Your Own Financial Plan</b> .....	295
<b>The Sampsons—A Continuing Case</b> .....	295
<b>Part 3: Brad Brooks—A Continuing Case</b> .....	296

## **PART 4 PROTECTING YOUR WEALTH**

---

<b>Chapter 11 Auto and Homeowner’s Insurance</b> .....	310
<b>Background on Insurance</b> .....	311
<b>Managing Risk</b> .....	311
Avoid Risk.....	311
Reduce Risk.....	311
Accept Risk.....	312
Insure Against Risk.....	312
Economic Impact on the Decision to Insure Against Risk.....	313
<b>Role of Insurance Companies</b> .....	313
Insurance Company Operations.....	314
<b>Auto Insurance</b> .....	315
Auto Insurance Policy Provisions.....	316
Coverage A: Liability Coverage .....	316
Coverage B: Medical Payments Coverage.....	317
Coverage C: Uninsured or Underinsured Motorist Coverage .....	318
Coverage D: Collision and Comprehensive Coverage .....	318
Other Provisions .....	319
Summary of Auto Insurance Provisions.....	319
<b>Auto Insurance Premiums</b> .....	320
Characteristics of Your Car .....	320
Your Personal Characteristics.....	321
Your Insurance Company.....	322
<b>If You Are in an Auto Accident</b> .....	323
<b>Homeowner’s Insurance Provisions</b> .....	324
Property Damage.....	325
Other Structures on Property .....	326
Personal Property .....	326
Liability.....	327
Other Types of Provisions .....	327

**Homeowner’s Insurance Premiums** ..... 327  
 Factors That Affect Homeowner’s Insurance Premiums ..... 327  
 Reducing Your Homeowner’s Insurance Premium ..... 328  
 Filing a Claim ..... 329

**Renter’s Insurance** ..... 330  
 Renter’s Insurance Policy Provisions ..... 330

**Umbrella Personal Liability Policy** ..... 330

**How Insurance Fits Within Your Financial Plan** ..... 330  
 Discussion Questions ..... 331

**Summary** ..... 331  
 Review Questions ..... 332  
 Financial Planning Online Exercises ..... 333  
 Psychology of Personal Finance: Your Auto Insurance ..... 334  
 Video Exercise: Selecting Auto Insurance ..... 334  
 Building Your Own Financial Plan ..... 334  
 The Sampsons—A Continuing Case ..... 334

**Chapter 12 Health and Disability Insurance** ..... 345

**Background on Health Insurance** ..... 346  
 Cost of Health Insurance ..... 347

**Private Health Insurance** ..... 347  
 Types of Private Health Insurance Coverage ..... 347  
 Premiums for Private Health Care Insurance ..... 349  
 Comparison of Private Health Insurance Plans ..... 349

**Contents of Health Care Insurance Policies** ..... 351  
 Identification of Insured Persons ..... 351  
 Location ..... 351  
 Preexisting Conditions ..... 351  
 Cancellation and Renewability Options ..... 351  
 Other Coverage ..... 351  
 Determinants of Unreimbursed Medical Expenses ..... 352  
 Expenses Not Covered by Private Insurance Plans ..... 353

**Government Health Care Plans** ..... 353  
 Medicare ..... 353  
 Medicaid ..... 354

**Legislation Affecting Health Care Insurance** ..... 354  
 Consolidated Omnibus Budget Reconciliation Act (COBRA) ..... 354  
 Health Insurance Portability and Accounting Act (HIPAA) ..... 355  
 Affordable Care Act ..... 355

**Long-Term Care Insurance** ..... 356  
 Long-Term Care Insurance Provisions ..... 357  
 Factors That Affect Long-Term Care Insurance Premiums ..... 358

Reducing Your Cost of Long-Term Care Insurance .....	358
Determining the Amount of Coverage.....	358
<b>Disability Insurance</b> .....	358
Sources of Disability Income Insurance .....	359
Disability Insurance Provisions .....	359
Deciding on Disability Insurance.....	361
<b>How Health and Disability Insurance Fit Within Your Financial Plan</b> ...	361
Discussion Questions.....	362
<b>Summary</b> .....	362
Review Questions.....	363
Financial Planning Problems.....	364
Financial Planning Online Exercises.....	365
Psychology of Personal Finance: Your Health Insurance.....	365
Video Exercise: Selecting Health Insurance .....	365
<b>Building Your Own Financial Plan</b> .....	366
<b>The Sampsons—A Continuing Case</b> .....	366

<b>Chapter 13 Life Insurance</b> .....	375
<b>Background on Life Insurance</b> .....	376
Role of Life Insurance.....	376
Psychology Behind the Life Insurance Decision .....	376
Role of Life Insurance Companies .....	377
Applying for Life Insurance .....	377
<b>Types of Life Insurance</b> .....	377
Term Insurance .....	377
Whole Life Insurance.....	381
Universal Life Insurance .....	383
<b>Determining the Amount of Life Insurance</b> .....	383
Income Method.....	384
Budget Method .....	384
<b>Contents of a Life Insurance Policy</b> .....	387
Beneficiary .....	387
Grace Period .....	387
Living Benefits.....	387
Nonforfeiture Clause.....	387
Loans .....	388
Incontestability Date.....	388
Renewability Option.....	388
Conversion Option .....	388
Settlement Options.....	388
<b>Selecting a Life Insurance Company</b> .....	389
The Specific Policy That You Want .....	389

Relatively Low Insurance Premiums.....	389
Strong Financial Condition.....	389
Services.....	390
Other Types of Insurance.....	390
<b>How Life Insurance Fits Within Your Financial Plan</b> .....	390
Discussion Questions.....	390
<b>Summary</b> .....	391
Review Questions.....	392
Financial Planning Problems.....	392
Financial Planning Online Exercises.....	393
Psychology of Personal Finance: Your Life Insurance.....	394
Video Exercise: Selecting Life Insurance.....	394
<b>Building Your Own Financial Plan</b> .....	394
<b>The Sampsons—A Continuing Case</b> .....	394
<b>Part 4: Brad Brooks—A Continuing Case</b> .....	395

## **PART 5 PERSONAL INVESTING**

<b>Chapter 14 Investing Fundamentals</b> .....	404
<b>Types of Investments</b> .....	405
Money Market Securities.....	405
Stocks.....	406
Bonds.....	407
Mutual Funds.....	407
Real Estate.....	408
<b>Investment Return</b> .....	408
Return from Investing in Stock.....	409
Return from Investing in Bonds.....	409
Return from Investing in Mutual Funds.....	409
Return from Investing in Real Estate.....	409
Measuring the Return on Your Investment.....	410
How Your Wealth Is Influenced by Your Return.....	412
<b>Risk from Investing</b> .....	413
Illustration of Risk.....	413
Risk Due to Uncertainty Surrounding Economic Conditions.....	414
Measuring an Investment's Risk.....	415
<b>Trade-Off Between Return and Risk</b> .....	415
Return-Risk Trade-Off Among Stocks.....	416
Return-Risk Trade-Off Among Bonds.....	416
Return-Risk Trade-Off Among Mutual Funds.....	417
Return-Risk Trade-Off Among Real Estate Investments.....	417

Comparing Different Types of Investments .....	417
<b>Learning from Investment Mistakes</b> .....	418
Making Decisions Based on Unrealistic Goals.....	418
Borrowing to Invest.....	419
Taking Risks to Recover Losses.....	419
<b>How Investments Fit Within Your Financial Plan</b> .....	419
Discussion Questions.....	421
<b>Summary</b> .....	421
Review Questions.....	421
Financial Planning Problems.....	422
Financial Planning Online Exercises.....	423
Psychology of Personal Finance: Your Investments.....	424
Video Exercise: Investing.....	424
Building Your Own Financial Plan .....	424
The Sampsons—A Continuing Case.....	425
 <b>Chapter 15 Investing in Stocks</b> .....	 431
<b>Stock Exchanges</b> .....	432
New York Stock Exchange .....	432
Other Stock Exchanges .....	433
Over-the-Counter (OTC) Market.....	433
Electronic Communications Networks (ECNs).....	433
<b>Stock Quotations</b> .....	433
<b>Purchasing and Selling Stocks</b> .....	435
Selecting a Broker .....	435
Placing an Order .....	435
Placing an Order Online.....	437
Buying Stock on Margin.....	437
Short Selling Stock.....	438
<b>Analyzing Stocks</b> .....	438
Analyzing a Firm’s Financial Condition.....	439
Analyzing Economic Conditions .....	440
Industry Conditions.....	443
Integrating Your Analyses .....	443
Limitations of Stock Analysis.....	444
<b>How Stock Investment Methods Fit Within Your Financial Plan</b> .....	444
Discussion Questions.....	445
<b>Summary</b> .....	445
Review Questions.....	446
Financial Planning Online Exercises.....	447
Psychology of Personal Finance: Buying Stocks on Margin.....	448

Video Exercise: Investing in Stocks..... 448  
 Building Your Own Financial Plan ..... 448  
 The Sampsons—A Continuing Case..... 449

**Chapter 16 Investing in Bonds**..... 455

**Background on Bonds** ..... 456  
 Bond Characteristics ..... 456  
 A Bond’s Yield to Maturity..... 457  
 Bond Trading in the Secondary Market..... 457  
**Types of Bonds** ..... 457  
 Treasury Bonds..... 457  
 Municipal Bonds..... 457  
 Federal Agency Bonds ..... 458  
 Corporate Bonds..... 458  
**Return from Investing in Bonds**..... 459  
 Impact of Interest Rate Movements on Bond Returns ..... 459  
 Tax Implications of Investing in Bonds..... 460  
**Valuing a Bond** ..... 460  
**Risk from Investing in Bonds**..... 462  
 Default Risk ..... 462  
 Call Risk..... 463  
 Interest Rate Risk..... 464  
**Bond Investment Strategies** ..... 465  
 Interest Rate Strategy..... 465  
 Passive Strategy ..... 465  
 Maturity Matching Strategy..... 465  
**How Bond Decisions Fit Within Your Financial Plan**..... 466  
 Discussion Questions..... 467  
**Summary** ..... 467  
 Review Questions..... 467  
 Financial Planning Exercises ..... 468  
 Financial Planning Online Exercises..... 469  
 Psychology of Personal Finance: Buying Risky Bonds..... 470  
 Video Exercise: Investing in Bonds ..... 470  
 Building Your Own Financial Plan ..... 470  
 The Sampsons—A Continuing Case..... 471

**Chapter 17 Investing in Mutual Funds**..... 477

**Background on Mutual Funds** ..... 478  
 Motives for Investing in Mutual Funds..... 478  
 Net Asset Value ..... 478

Open-End Versus Closed-End Funds.....	479
Load Versus No-Load Funds.....	479
Expense Ratios.....	480
<b>Types of Mutual Funds.....</b>	<b>481</b>
Types of Stock Mutual Funds.....	481
Types of Bond Mutual Funds.....	483
<b>Return and Risk of a Mutual Fund.....</b>	<b>484</b>
Return from Investing in a Mutual Fund.....	485
Risk from Investing in a Stock Mutual Fund.....	486
Trade-Off Between Expected Return and Risk of Stock Funds.....	486
Risk from Investing in a Bond Mutual Fund.....	487
Trade-Off Between Expected Return and Risk of Bond Funds.....	488
<b>Selecting Mutual Funds.....</b>	<b>489</b>
Reviewing a Mutual Fund’s Prospectus.....	489
Making the Decision.....	490
<b>Quotations of Mutual Funds.....</b>	<b>491</b>
<b>Diversification Among Mutual Funds.....</b>	<b>493</b>
Impact of the Financial Crisis on Diversification Benefits.....	493
International Diversification of Mutual Funds.....	493
Diversification Through Mutual Fund Supermarkets.....	493
Other Types of Funds.....	494
<b>How Mutual Funds Fit Within Your Financial Plan.....</b>	<b>494</b>
Discussion Questions.....	496
<b>Summary.....</b>	<b>496</b>
Review Questions.....	496
Financial Planning Exercises.....	497
Financial Planning Online Exercises.....	498
Psychology of Personal Finance: Investing in Mutual Funds.....	499
Video Exercise: Investing in Mutual Funds.....	499
<b>Building Your own Financial Plan.....</b>	<b>499</b>
<b>The Sampsons—A Continuing Case.....</b>	<b>500</b>
<b>Chapter 18 Asset Allocation.....</b>	<b>505</b>
<b>How Diversification Reduces Risk.....</b>	<b>506</b>
Benefits of Portfolio Diversification.....	506
Determining Portfolio Benefits.....	506
Factors That Influence Diversification Benefits.....	507
<b>Strategies for Diversifying.....</b>	<b>509</b>
Diversification of Stocks Across Industries.....	509
Diversification of Stocks Across Countries.....	510
<b>Asset Allocation Strategies.....</b>	<b>510</b>
Including Bonds in Your Portfolio.....	511



Including Real Estate Investments in Your Portfolio ..... 511

Including Stock Options in Your Portfolio ..... 512

How Asset Allocation Affects Risk..... 514

An Affordable Way to Conduct Asset Allocation ..... 514

**Your Asset Allocation Decision** ..... 515

Your Stage in Life ..... 515

Your Degree of Risk Tolerance ..... 517

Your Expectations About Economic Conditions ..... 517

**How Asset Allocation Fits Within Your Financial Plan**..... 519

Discussion Questions..... 520

**Summary** ..... 520

Review Questions..... 520

Financial Planning Exercises ..... 521

Financial Planning Online Exercises ..... 522

Psychology of Personal Finance: Investing in Mutual Funds..... 522

Video Exercise: Asset Allocation ..... 522

**Building Your Own Financial Plan** ..... 523

**The Sampsons—A Continuing Case**..... 523

**Part 5: Brad Brooks—A Continuing Case**..... 523

## **PART 6 RETIREMENT AND ESTATE PLANNING**

---

**Chapter 19 Retirement Planning**..... 532

**Social Security**..... 533

Qualifying for Social Security..... 533

Retirement Benefits..... 533

Concern About Retirement Benefits in the Future ..... 534

**Employer-Sponsored Retirement Plans** ..... 534

Defined-Benefit Plans..... 534

Defined-Contribution Plans ..... 535

**Your Retirement Planning Decisions**..... 536

Which Retirement Plan Should You Pursue? ..... 536

How Much to Contribute? ..... 536

How to Invest Your Contributions? ..... 536

**Retirement Plans Offered by Employers** ..... 538

401(k) Plan ..... 538

Roth 401(k) Plan ..... 538

403(b) Plan ..... 539

Simplified Employee Pension (SEP) Plan..... 539

SIMPLE Plan..... 539

Profit Sharing .....	539
Employee Stock Ownership Plan (ESOP) .....	540
Managing Your Retirement Account After Leaving Your Employer .....	540
<b>Retirement Plans for the Self-Employed</b> .....	540
Keogh Plan .....	540
Simplified Employee Pension (SEP) Plan .....	540
<b>Individual Retirement Accounts</b> .....	540
Traditional IRA .....	541
Roth IRA .....	541
Comparison of the Roth IRA and Traditional IRA .....	541
<b>Annuities</b> .....	542
Fixed Versus Variable Annuities .....	542
Annuity Fees .....	543
<b>Estimating Your Future Retirement Savings</b> .....	543
Estimating the Future Value of a Set of Annual Investments .....	544
<b>How Retirement Planning Fits Within Your Financial Plan</b> .....	547
Discussion Questions .....	548
<b>Summary</b> .....	548
Review Questions .....	549
Financial Planning Exercises .....	550
Financial Planning Online Exercises .....	551
Psychology of Personal Finance: Your Retirement .....	551
Video Exercise: Retirement Planning .....	551
<b>Building Your Own Financial Plan</b> .....	552
<b>The Sampsons—A Continuing Case</b> .....	552
<b>Chapter 20 Estate Planning</b> .....	557
<b>Purpose of a Will</b> .....	558
Reasons for Having a Will .....	558
Creating a Valid Will .....	558
Common Types of Wills .....	558
Key Components of a Will .....	559
Changing Your Will .....	559
Executing the Will During Probate .....	559
<b>Estate Taxes</b> .....	561
Determining Estate Taxes .....	561
Other Related Taxes .....	561
Valuing Your Estate to Assess Potential Estate Taxes .....	561
<b>Trusts, Gifts, and Contributions</b> .....	561
Trusts .....	561
Gifts .....	562
Contributions to Charitable Organizations .....	563

**Other Aspects of Estate Planning** ..... 563  
 Living Will..... 563  
 Power of Attorney..... 563  
 Maintaining Estate Plan Documents..... 563  
**How Estate Planning Fits Within Your Financial Plan** ..... 564  
 Discussion Questions..... 564  
**Summary** ..... 564  
 Review Questions..... 566  
 Financial Planning Online Exercises..... 567  
 Psychology of Personal Finance: Your Will ..... 567  
 Video Exercise: Estate Planning ..... 567  
 Building Your Own Financial Plan ..... 567  
 The Sampsons—A Continuing Case..... 568  
 Part 6: Brad Brooks—A Continuing Case..... 568

## **PART 7 SYNTHESIS OF FINANCIAL PLANNING**

**Chapter 21 Integrating the Components of a Financial Plan**..... 576  
**Review of Components Within a Financial Plan** ..... 577  
 Budgeting..... 577  
 Managing Liquidity ..... 578  
 Personal Financing ..... 579  
 Protecting Your Assets and Income..... 579  
 Managing Investments ..... 579  
 Retirement Planning..... 580  
 Maintaining Your Financial Documents ..... 580  
**Integrating the Components** ..... 580  
**Financial Plan** ..... 588  
**Summary** ..... 590  
 Review Questions..... 591  
 Financial Planning Exercises ..... 591  
 Financial Planning Online Exercises..... 592  
 Psychology of Personal Finance: Your Financial Plan..... 592  
 Video Exercise: Financial Plan..... 592  
 Certified Financial Planner Exercise..... 592  
 Building Your Own Financial Plan ..... 593  
 The Sampsons—A Continuing Case..... 593  
 Financial Literacy Post-Test..... 599

<b>Appendix A Your Career</b> .....	601
<b>Determining Your Career Path</b> .....	601
Factors That May Affect Your Career Path .....	601
Sources of Information That Can Help You Select Your Career Path .....	601
<b>Getting the Skills You Need</b> .....	602
Training .....	602
Education .....	602
Internships .....	603
<b>Decisions About Your Education and Career</b> .....	603
How the Economy Can Affect Your Decision .....	603
Comparative Analysis of Pursuing More Education Versus a Job .....	604
<b>Selecting Your School</b> .....	607
Factors to Consider When Choosing a College .....	607
Commuting Versus Going Away to College .....	609
<b>Selecting Your Major</b> .....	610
Review Course Content .....	610
Research Possible Career Paths .....	611
Recommendations Based on Self-Testing .....	611
Conduct Analysis to Compare Majors .....	611
Continuing Your Education .....	613
<b>Criteria Used to Assess Applicants</b> .....	614
Your Application .....	614
Your Résumé .....	614
Using Social Media .....	614
Your Interview .....	615
Comparing Job Offers .....	615
<b>Changing Your Career</b> .....	616
Self-Employment .....	616
<b>Conclusion</b> .....	616
<b>Appendix B Projects</b> .....	617
<b>Assessing Your Credit</b> .....	617
<b>Career Planning Project</b> .....	617
Information on Career Planning .....	618
<b>Leasing an Apartment</b> .....	619
<b>Stock Market Project</b> .....	620
Obtaining Stock Price and Dividend Information .....	620
Enter the Stock Information .....	620
Determine Your Gain over the School Term .....	620

Comparing Your Stock to the General Market..... 621  
Team Project ..... 621  
**Comparison Shopping: Online Versus Local Purchases ..... 621**

**Appendix C Financial Tables..... 623**

Index ..... 633

Credits..... 653

# The Most Interactive Book on the Market

The Fifth Edition of *Personal Finance* integrates the *Building Your Own Financial Plan* and case study worksheets into each chapter, helping students to create their own personalized plan for financial success.

## BUILDING YOUR OWN FINANCIAL PLAN

*Personal Finance*'s structure mirrors a comprehensive financial plan, teaching students the skills they need to build their own financial plan. The Building Your Own Financial Plan chapter-ending case studies are presented as an integrated series of exercises and worksheets that represent a portion of a financial plan. At the end of the course, students will have completed a financial plan that they can continue implementing beyond the school term. All of the worksheets are also available on the Financial Planning CD-ROM, which is included in each new book.

### BUILDING YOUR OWN FINANCIAL PLAN



Based on the goals that you established in Chapter 1 and the personal cash flow statement that you created in Chapter 2, you are now ready to begin determining how to go about achieving many of your goals. Most financial goals are achieved by some sort of savings/investment plan.

Go to the worksheets at the end of this chapter and to the CD-ROM accompanying this text, to continue building your financial plan.

NAME \_\_\_\_\_

DATE \_\_\_\_\_

2. Prepare your personal balance sheet.

**Personal Balance Sheet**

**Assets**

**Liquid Assets**

Cash	
Checking account	
Savings account	
Other liquid assets	
<b>Total liquid assets</b>	

**Household Assets**

Home	
Car	
Furniture	
Other household assets	
<b>Total household assets</b>	

**Investment Assets**

Stocks	
Bonds	
Mutual Funds	
Other investments	
<b>Total investment assets</b>	

**Real Estate**

Residence	
Vacation home	
Other	
<b>Total real estate</b>	
<b>Total Assets</b>	

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Liabilities and Net Worth**

**Current Liabilities**

Loans	
Credit card balance	
Other current liabilities	
<b>Total current liabilities</b>	

**Long-Term Liabilities**

Mortgage	
Car loan	
Other long-term liabilities	
<b>Total long-term liabilities</b>	
<b>Total Liabilities</b>	
<b>Net Worth</b>	

3. Reevaluate the goals you set in Chapter 1. Based on your personal cash flow statement, indicate how much you can save each year to reach your goals.

**Personal Financial Goals**

Financial Goal	Dollar Amount	Savings per Year	Number of Years
<b>Short-Term Goals</b>			
1.			
2.			
3.			
<b>Intermediate-Term Goals</b>			
1.			
2.			
3.			
<b>Long-Term Goals</b>			
1.			
2.			
3.			

NAME \_\_\_\_\_

Chapter 2: Building Your Own Financial Plan

**GOALS**

- Determine how to increase net cash flows in the near future.
- Determine how to increase net cash flows in the distant future.

**ANALYSIS**

- Prepare your personal cash flow statement.

**Personal Cash Flow Statement**

Cash Inflows		
Disposable (after-tax) income		
Interest on deposits		
Dividend payments		
Other		
<b>Total Cash Inflows</b>		
<b>Cash Outflows</b>		
Rent/Mortgage		
Cable TV		
Electricity and water		
Telephone		
Groceries		
Health care insurance and expenses		
Clothing		
Car expenses (insurance, maintenance, and gas)		
Recreation		
Other		
<b>Total Cash Outflows</b>		
<b>Net Cash Flows</b>		

If you enter your cash flow information in the Excel worksheet, the software will create a pie chart of your cash outflows.

# An Interactive Approach

Personal Finance's *interactive approach* incorporates Internet-based resources along with many examples, problems, and ongoing case studies, all of which focus on providing students with hands-on practice applying financial concepts.

## FREE APPS for Personal Finance



### Finding an ATM Nearby

#### Application:

Use the ATM Hunter app to find a nearby ATM. You can use your current location when searching, or input an address or an airport.

#### More information at:

[itunes.apple.com/us/app/atm-hunter/id309754128?mt=8](https://itunes.apple.com/us/app/atm-hunter/id309754128?mt=8)

A new feature in the fifth edition, **Free Apps for Personal Finance**, highlights useful apps students can download to their smartphones for free that apply to some of the key concepts covered in the chapter.

## Financial Planning ONLINE



### Go to:

[www.frbsf.org/publications/consumer/creditrightrights.html](http://www.frbsf.org/publications/consumer/creditrightrights.html)

### To get:

information about various laws that protect your rights when using credit.

**Financial Planning Online** in every chapter highlights Internet resources for more information on a chapter topic. Each includes an Internet address and a description of what the Web site provides.

**Financial Planning Problems** require students to demonstrate knowledge of mathematically based concepts to perform computations in order to make well-informed personal finance decisions. All Financial Planning Problems are available in **MyFinanceLab**.

## FINANCIAL PLANNING PROBLEMS

All Financial Planning Problems are available in **MyFinanceLab** at [www.myfinancelab.com](http://www.myfinancelab.com).

- Interest Earned.** Teresa has just opened a NOW account that pays 3.5% interest. If she maintains a minimum balance of \$500 for the next 12 months, how much interest will she earn?
- Interest Earned.** Lisa is depositing \$2,500 in a six-month CD that pays 4.25% interest. How much interest will she accrue if she holds the CD until maturity?
- Value of CD.** Travis has invested \$3,000 in a three-month CD at 4%. How much will Travis have when the CD matures?



## FINANCIAL PLANNING ONLINE EXERCISES

- Go to [www.bankrate.com/checking.aspx](http://www.bankrate.com/checking.aspx) and answer the following questions:
  - What bank in what city, nationally, will give you the highest rate on an MMA?
  - What bank in what city, locally, will give you the highest rate on an MMA?
  - Find what bank in what city, nationally, will pay you the highest rate on a one-year CD.
  - Find what bank in what city, locally, will pay you the highest rate on a one-year CD.

**Financial Planning Online Exercises** show students how to obtain, critically evaluate, and use Internet-based resources in making personal finance decisions.

# Real-Life Scenarios

## EXAMPLE



Stephanie Spratt wants to determine the amount of interest that she would earn over one year if she deposits \$1,000 in a savings account that pays 4% interest.

$$\begin{aligned}\text{Interest Earned} &= \text{Deposit Amount} \times \text{Interest Rate} \\ &= \$1,000 \times .04 \\ &= \$40\end{aligned}$$

Although the interest income is attractive, she cannot write checks on a savings account. As she expects to need the funds in her checking account to pay bills in the near future, she decides not to switch those funds to a savings account at this time.

A running example of **Stephanie Spratt**, a recent college graduate and new entrant into the workforce, helps students apply concepts to real-life situations. Students are commonly faced with dilemmas similar to those Stephanie faces, such as how to control recreational spending or whether to buy or lease a car.

## THE SAMPSONS—A Continuing Case



The Sampsons have been carrying a balance of about \$2,000 on their credit card. They have been paying the minimum amount due and have been using any excess net cash flows to implement their new savings plan for a new car and their children's college education. To date, they have saved \$2,000; they are currently earning 5% on the savings. Meanwhile, their credit card is charging them 18%. Dave and Sharon want to evaluate the return they are receiving from their savings versus the interest expenses they are accruing on their credit card.

Go to the worksheets at the end of this chapter, and to the CD-ROM accompanying this text, to continue this case.

**Build a financial plan for the Sampson family!** The parents of two children, Dave and Sharon Sampson have made few plans regarding their financial future and are eager to start saving toward a new car, their children's college education, and their retirement. Students apply chapter concepts to counsel the Sampsons on the accompanying worksheets.

## PART 6: BRAD BROOKS—A Continuing Case



Brad tells you that he has revised his retirement plans. He would like to retire in 20 years instead of the original 30. His goal is to save \$500,000 by that time. He is not taking advantage of his employer's retirement match; his employer will match retirement plan contributions up to \$300 per month. Factoring in the employer match, Brad could have a possible total annual retirement contribution of \$7,200.

Brad also unveils his plans to provide for his two nephews' college in the event of his death. He does not have a will and wonders if one is necessary.

Go to the worksheets at the end of this chapter, and to the CD-ROM accompanying this text, to complete this case.

At the end of each part, students are prompted to **build a financial plan for Brad Brooks** using the accompanying worksheets. Brad has expensive tastes—as evidenced by his soaring credit card balance—and he needs assistance in gaining control over his finances.



# Learning Tools

chapter

# 2

## Planning with Personal Financial Statements



**W**here does it all go? It seems like the last paycheck is gone before the next one comes in. Money seems to burn a hole in your pocket, yet you don't believe that you are living extravagantly. Last month you made a pledge to yourself to spend less than the month before. Somehow, though, you are in the same position as you were last month. Your money is gone. Is there any way to plug the hole in your pocket?

What are your expenses? For many people, the first obstacle is to correctly assess their true expenses. Each expense may seem harmless and worthwhile, but combined they can be like a pack of piranhas that quickly gobble up your modest income. What can you do to gain control of your personal finances?

Just read on in this chapter and you will see how to take control of your finances. However, your task is not easy because it takes self-discipline and there may be no immediate reward. The result is often like a diet: easy to get started, but hard to carry through.

Your tools are the personal balance statement, the personal cash flow statement, and a budget. These three personal financial statements show you where you are, predict where you will be after three months or a year, and help you control expenses. The potential benefits are peace of mind from knowing your financial future.

MyFinanceLab helps you manage your money more efficiently. Visit [www.myfinance.com](http://www.myfinance.com).

34

### Chapter Introductions

The opening of each chapter provides an interest-grabbing scenario that previews the chapter's content.

### Learning Objectives

Corresponding to the main headings in each chapter, the list of learning objectives guides students through the material.

### The objectives of this chapter are to:

- Explain how to create your personal cash flow statement
- Identify the factors that affect your cash flows
- Show how to create a budget based on your forecasted cash flows
- Describe how to create your personal balance sheet
- Explain how your net cash flows are related to your personal balance sheet (and therefore affect your wealth)

### EXAMPLE

You wish to buy a used car for \$2,000 from Rod Simpkins, who is concerned that you may not have sufficient funds in your account. So you go to Lakeside Bank, where you have your checking account. You obtain a cashier's check from Lakeside Bank made out to Rod Simpkins. After verifying your account balance, the bank complies with your request and reduces your checking account balance by \$2,000. It will likely charge you a small fee such as \$10 or \$15 for this service. Rod accepts the cashier's check from you because he knows that this check is backed by Lakeside Bank and will not bounce.

#### personal balance sheet

A summary of your assets (what you own), your liabilities (what you owe), and your net worth (assets minus liabilities).

#### liquid assets

Financial assets that can be easily sold without a loss in value.

#### household assets

Items normally owned by a household, such as a home, car, and furniture.

### Marginal Glossary

Throughout the text, key terms and their definitions appear in the text margin where they are first introduced.

### Explanation by Example

Practical examples applying concepts in realistic scenarios throughout chapters help cement student understanding.

**PSYCHOLOGY of Personal Finance**



**Twisted Perception of the Risk Premium.** When the economy weakens and the risk premium rises (for the reasons explained above), some investors are attracted to investments, but for the wrong reasons. They may decide to pursue investments with higher risk premiums in a weak economy to make up for limited income. However, their logic is irrational. The higher risk premium on investments during a weak economy is offered

**Psychology of Personal Finance**

Personal finance behavior is influenced by psychology. For example, some spending decisions are made on impulse due to the desire for immediate satisfaction.

**ECONOMIC IMPACT**



**Impact of the Economy on the Risk Premium.** As economic conditions change, the risk premium on various types of investments changes. When economic conditions weaken, firms that issue various types of debt securities must pay a higher risk premium in order to sell their securities. Investors become more concerned that these types of firms might go bankrupt and not repay their debt. Thus, you and other individuals would

**Economic Impact**

The Economic Impact logo identifies text that emphasizes how economic conditions can affect personal finance.

**Summary**

In paragraph form, the chapter summary presents the key points of the chapter to aid in student study.

**SUMMARY**

**Common Types of Investments.** Common types of investments include money market securities, stocks, bonds, mutual funds, and real estate. Each type of investment is unique in how it provides a return to its investors.

**Measuring Return on Investment.** The return on an investment is determined by the income that the investment generates and the capital gain of the investment over the investment horizon. Some stocks offer periodic income in the form of dividends, while bonds offer periodic income in the form of coupon payments.

**REVIEW QUESTIONS**

All Review Questions are available in MyFinanceLab at [www.myfinancelab.com](http://www.myfinancelab.com).

1. **Investing Priorities.** What should your first priority of investing be? What is the disadvantage of investments that satisfy that priority?
2. **Stocks.** What are stocks? How are stocks beneficial to corporations? Why do investors invest in stocks?
3. **Secondary Markets.** Distinguish between the primary and secondary stock markets. Why does the price of a stock change each day in the secondary market?

**Review Questions**

Test knowledge of material by comparing and contrasting concepts, interpreting financial quotations, and understanding how financial data can be used to make personal finance decisions. All Review Questions are available in MyFinanceLab.

**Ethical Dilemmas**

Real-life ethical situations are presented along with questions to encourage students' critical thinking about ethics.

13. **Ethical Dilemma.** Carlo and Rita's daughter just celebrated her 16th birthday and Carlo and Rita realize they have accumulated only half the money they will need for their daughter's college education. With college just two years away, they are concerned about how they will save the remaining amount in such a short time.

**VIDEO EXERCISE: Selecting Health Insurance**

Go to one of the Web sites that contain video clips (such as [www.youtube.com](http://www.youtube.com)) and view some video clips about selecting health insurance. You can use search phrases such as "selecting health insurance." Select one video clip on this topic that you would recommend for the other students in your class.

1. Provide the Web link for the video clip.
2. What do you think is the main point of this video clip?
3. How might you change your process of selecting health insurance as a result of watching this video clip?

**Video Exercise**

This activity has students find a video on an important finance topic discussed in the chapter.

## Psychology of Personal Finance Questions

At the end of every chapter, there is a section on the Psychology of Personal Finance that tests students' understanding of how psychological forces such as desire for immediate satisfaction can influence personal finance decisions.

## Financial Literacy Tests

A Financial Literacy Pre-Test is included just before Chapter 1. Answers are provided so that students can grade their performance. This test allows students to discover how much they do not know about personal finance and motivates them to develop their skills. A Financial Literacy Post-Test is provided immediately following Chapter 21. This test lets students discover how much they have learned after finishing the course. Answers are supplied so that students can easily assess their performance.



## PSYCHOLOGY OF PERSONAL FINANCE: Your Investments

1. Some investors get a bigger thrill from gambling with money than paying off a loan. Thus, they invest in stocks hoping to make a larger return than whatever interest rate they are paying on their loan. Describe your behavior of investing. Do you use money to invest that could have been used to pay off a credit card loan? If so, why? Do you think there is any risk associated with such a strategy?
2. Read one practical article about how psychology affects decisions when investing in stocks. You can easily retrieve possible articles by doing an online search using the terms "psychology" and "investing in stocks." Summarize the main points of the article.

## Financial Literacy PRE-TEST

The following test will help you determine how much you already know about personal finance. It contains basic questions that can determine your ability to make proper financial planning decisions. This text explains the concepts identified in the test that are essential to make financial planning decisions. It also covers more analytical concepts that can allow you to develop an effective financial plan.

After taking the test, grade your performance based on the answers provided at the end of the test.

1. If you give something up as a result of making a decision, you are incurring a(n) \_\_\_\_\_.
  - a. liquidity problem
  - b. net cost
  - c. opportunity cost
  - d. none of the above
2. \_\_\_\_\_ sell shares to individuals and invest the proceeds in investment instruments such as bonds or stocks.
  - a. Financial plans
  - b. Budget plans
  - c. Mutual funds
  - d. none of the above
3. When finding the present value of a future value or the present value of an annuity, the \_\_\_\_\_ the interest rate, the \_\_\_\_\_ the present value.
  - a. higher; higher
  - b. lower; lower
  - c. higher; lower
  - d. none of the above
4. \_\_\_\_\_ reduce taxable income even if the taxpayer does not itemize.
  - a. Exemptions
  - b. Tax credits
  - c. Capital gains
  - d. none of the above
5. When the Federal Reserve wishes to \_\_\_\_\_ interest rates, it \_\_\_\_\_ the amount of funds at commercial banks.
  - a. reduce; reduces
  - b. increase; increases
  - c. reduce; increases
  - d. Answers (a) and (b) are correct.
6. A \_\_\_\_\_ offered by a depository institution specifies a minimum amount that must be invested, a maturity date on which the deposit matures, and an annualized interest rate.
  - a. NOW account
  - b. money market deposit account
  - c. certificate of deposit
  - d. savings account
7. In all cases of identity theft, you should notify the \_\_\_\_\_.
  - a. FTC
  - b. U.S. Postal Service
  - c. FBI
  - d. Secret Service
8. The \_\_\_\_\_ quoted on credit represents the simple interest rate charged after including any fees imposed by the creditor.
  - a. annual percentage rate (APR)
  - b. money market rate (MMR)
  - c. effective annual rate (EAR)
  - d. debit card rate (DCR)

## Appendix B PROJECTS

The following pages include projects for you to complete relating to specific aspects of personal finance. They are also available on this book's companion Web site [www.pearsonhighered.com/indiar](http://www.pearsonhighered.com/indiar).

- Assessing Your Credit
- Career Planning Project
- Leasing an Apartment
- Stock Market Project
- Comparison Shopping: Online Versus Local Purchases

### Assessing Your Credit

If you do not own a credit card, answer the following questions based on how you think you would use a credit card.

1. **Credit Spending.** How much do you spend per month on your credit card?
2. **Number of Credit Cards.** Do you have many credit cards? Are all of them necessary? Do you spend more money than you would normally as a result of having extra credit cards?
3. **Credit Versus Cash.** Would you make the most of your purchases if you used cash instead of a credit card? Do you feel like purchases have no cost when you use a credit card instead of cash?
4. **Pay Off Part or All of Balance.** What is your normal strategy when you receive a credit card bill? Do you only pay the minimum amount required? Do you typically pay off your entire balance on a monthly basis? If you do not pay off the entire balance, is it because you cannot afford to pay it off, or because you would prefer to have extra cash on hand? If you have a positive balance, how do you plan to pay off that balance? Pay all of it off next month? Or pay only the minimum amount required next month?
5. **Credit Limit.** Consider the limit on the amount you can spend using your credit cards. Does the limit restrict your spending? Would you benefit if the limit were increased? Or reduced?
6. **Obtaining Your Credit Report.** Go to the Federal Trade Commission Web site [www.ftc.gov/bcp/edu/pubs/consomercr/cred14.htm](http://www.ftc.gov/bcp/edu/pubs/consomercr/cred14.htm) to obtain your free credit report. If you recently obtained your report, just review that report rather than obtaining a new one. Notice the types of companies that requested information on your credit. Is your credit report accurate? If not, you can write to the credit bureau to have the wrong information corrected, as explained in the text.
7. **Assessing Your Credit Report.** Are you satisfied with your existing credit rating? If not, what steps do you plan to take in order to improve your credit rating? For example, could you reduce some debt in the future? See Chapter 7 for more ideas on improving your credit rating.

### Career Planning Project

Personal financial planning involves how you budget your money, manage your liquidity, finance purchases, protect your assets, invest your money, and plan your retirement and estate. All of these activities are focused on your money. A related task is career planning, which determines the amount of money that you can earn over time. Furthermore, your career determines your quality of life. Most people think about their ideal career (such as rock star, professional athlete, movie star), but do not spend enough time planning a realistic career. This project allows you learn about possible career opportunities in which you might have an interest. Your instructor may offer you additional details regarding the deadline date and length of the project.

## Projects

Several projects are available in Appendix B.

- **Assessing Your Credit** prompts students to evaluate their credit card balance and credit limit. It also guides students to obtain their credit score and to consider whether they should implement a strategy to pay down their existing credit balance.
- **Career Planning Project** allows students to research a particular career that they plan to pursue and report on their research.
- **Leasing an Apartment** allows students to assess the cost and potential benefits of leasing a particular apartment that they have identified.
- **Stock Market Project** allows students to simulate the investing process, monitor a particular stock, and analyze how stock values respond to economic conditions.
- **Comparison Shopping: Online Versus Local Purchases** allows students to compare the prices of products in stores versus online and to assess the pros and cons of purchasing products online.

# Preface

Ask yourself these financial questions:

- Should you buy a new car or pay off your credit card balance first?
- How much can you borrow?
- Which bank offers the best services to satisfy your needs?
- How can you obtain easy access to funds in an emergency situation?
- Do you have enough insurance?
- Will you be able to retire at an early age?

This textbook allows you to address these and other related financial dilemmas. It equips you with the knowledge and tools to help you make sound decisions. It also guides you to create a financial plan for yourself. This textbook gives you the opportunity to develop the skills that can improve your financial position over time.

## New to the Fifth Edition

All chapters have been updated to present complete and current coverage at time of publication. The key changes in the Fifth Edition of *Personal Finance* include:

- Attention is given to the financial crisis and economic recession where appropriate.
- A new feature called Psychology of Personal Finance explains how financial planning decisions are affected by psychology. There is also an exercise at the end of each chapter that asks students to evaluate if their personal finance decisions regarding a specific behavior discussed in the chapter is influenced by psychology.
- A new feature called Free Apps for Personal Finance identifies free apps that students can use to help make informed personal finance decisions.
- Chapter 1 has been substantially revised to thoroughly explain how the various financial planning components introduced there are integrated. Thus, students quickly see how they begin with budgeting as the foundation (in Chapter 2) and then additional components are covered in each chapter to develop a complete financial plan.
- Chapter 6, Managing Your Money, has been revised to reinforce the need to be conservative when investing money that will be needed to pay bills in the near future.
- Chapter 7, Assessing and Securing Your Credit, now gives more attention to how credit is commonly misused and can lead to credit problems.
- Chapter 8, Managing Your Credit, has been revised to ensure a clear flow of concepts, and emphasis is now given to The Credit Card Accountability, Responsibility, and Disclosure Act (also called the Credit CARD Act) of 2009. This act was passed in an effort to ensure that consumers who pursued credit card services are treated fairly and have access to complete information about the fees and other provisions of the credit agreement. Chapter 8 describes many provisions of the act that can provide students with more protection.
- Chapter 9, Personal Loans, devotes more attention to how excessive borrowing to buy an expensive car can complicate all other personal finance decisions.
- Chapter 10, Purchasing and Financing a Home, devotes more attention to how excessive borrowing to buy an expensive home can complicate all other personal finance decisions. In addition, more emphasis is given to determining how much one can afford when buying a home, the impact of economic conditions on home values, and how the financial crisis affected home values.

- Chapter 14, Investing Fundamentals, devotes more attention to how some types of investments that could generate high returns are also subject to much risk (potential for large losses).
- Chapter 15, Investing in Stocks, now more thoroughly explains why stock prices change, and also explains the impact of the international environment on stock prices. It also elaborates on the limitations when analyzing stocks, as even the most thorough stock analysis can lead to investment decisions that result in major losses.
- Chapter 18, Asset Allocation, now places more emphasis on the need to properly assess risk when investing among various types of assets.
- Chapter 19, Retirement Planning, now gives more attention to the importance of planning for retirement at a young age, and illustrates how individuals who save for retirement at an early age can possibly retire much earlier or will have much more to spend during their retirement years.
- Career Planning (in Appendix A) has been expanded substantially to explain how to select a college, how to select a major, and whether to pursue graduate school.

## Hallmarks of Personal Finance

The first chapter establishes the text's organization by introducing the key components of a financial plan. The balance of the text is organized into the following seven parts, which are keyed to the financial plan components introduced in Chapter 1, concluding with the synthesis of those components into a comprehensive financial plan in Chapter 21:

1. *Tools for Financial Planning* covers budgeting and tax planning.
2. *Managing Liquidity* covers banking, credit, and money management.
3. *Personal Financing* covers financing large purchases.
4. *Protecting Your Wealth* covers insurance planning.
5. *Personal Investing* covers a variety of investments and investing strategy.
6. *Retirement and Estate Planning* covers plans, strategies, and tax considerations related to retirement and estate planning.
7. *Synthesis of Financial Planning* covers the integration of the components into a comprehensive personal financial plan.

## Decision Making

All the information presented in this book is geared toward equipping students with the expertise they need to make informed financial decisions. Each chapter establishes a foundation for the decisions that form the basis of a financial plan. When students complete each chapter, they are therefore prepared to complete the related financial plan subsection. The key to understanding personal finance is applying concepts to real-life planning scenarios.

*Personal Finance* calls attention to the trade-offs involved in financial decisions. The decision to buy a new car affects the amount of funds available for recreation, rent, insurance, and investments. The text uses ongoing scenarios woven throughout all the chapters to illustrate the interdependence of personal finance decisions, including the following:

- *Examples* feature Stephanie Spratt, a recent college graduate and new entrant into the workforce.
- *Building Your Own Financial Plan* exercises prompt students to revise their goals, personal cash flow statement, and personal balance sheet to reflect their shifting priorities.

- *The Sampsons* case at the end of each chapter highlights a family with two young children struggling to organize their finances.
- The part-ending *Brad Brooks* cases illustrate the adverse effects of poor decision-making.
- The capstone Chapter 21 synthesizes all parts of the text to highlight the interrelationships among the components of a financial plan and presents a completed plan for Stephanie Spratt. It also contains a *Certified Financial Planner Exercise* that challenges students to offer advice on how financial planning should be adjusted in response to a change in economic conditions.

## Math-Friendly Presentation

The quantitative side of financial planning intimidates many students. This book simplifies the mathematics of personal finance by explaining the underlying logic. Formulas and calculations are explained in the text and then illustrated in examples. Examples that can be solved using a financial calculator are depicted with a calculator illustration. Students are referred to Web sites with online calculators whenever pertinent. The Financial Planning Problems provide students with ample opportunity to practice applying math-based concepts.

## Instructor and Student Support Package

The following array of supplementary materials is available to help busy instructors teach more effectively and to allow busy students to learn more efficiently.

### MyFinanceLab

This fully integrated online homework tool gives students the hands-on practice and tutorial assistance they need to learn finance skills efficiently. Ample opportunities for online practice and assessment in MyFinanceLab are seamlessly integrated into the content of each chapter and organized by section within the chapter summaries. All end-of-chapter Review Questions and Financial Planning Problems are available in MyFinanceLab. Please visit [www.myfinancelab.com](http://www.myfinancelab.com) for more information and to register.

### Instructor's Resource Center

This password-protected site, accessible at [www.pearsonhighered.com/irc](http://www.pearsonhighered.com/irc), hosts all of the instructor resources that follow. Instructors should click on the "IRC Help Center" link for easy-to-follow instructions on getting access or may contact their sales representative for further information.

### Instructor's Manual

Prepared by Dianne R. Morrison, University of Wisconsin, La Crosse, this comprehensive online manual pulls together a wide variety of teaching tools. Each chapter contains an overview of key topics, teaching tips, and detailed answers and step-by-step solutions to the Review Questions, Financial Planning Problems, and Sampson family case questions. Each part concludes with answers to the Brad Brooks case questions.

### Test Bank

Prepared by Angela M. Seidel, Cambria-Rowe Business College, the online Test Bank contains over two thousand questions in true-false, multiple-choice, and short-essay format that can be used for quick test preparation.



## PowerPoint Lecture Presentation

Authored by Barbara Rice, Gateway Community and Technical College, this useful tool provides slides illustrating key points and exhibits as well as Web site information from the text in lecture note format.

## TestGen

The easy-to-use testing software (TestGen-EQ with QuizMaster-EQ for Windows and Macintosh) is a valuable test preparation tool that allows instructors to view, edit, and add Test Bank questions.

## Financial Planning Workbook and CD-ROM

The workbook has been fully integrated into the text for the Fifth Edition. At the end of each chapter the student is prompted to complete the Building Your Own Financial Plan exercises and the Sampson family continuing case. At the end of each part, the student is prompted to complete the Brad Brooks continuing case. Students can easily rip out the perforated worksheets to build their financial plan. Each new copy of the text is also packaged with a Financial Planning CD-ROM, which is designed to run on Microsoft<sup>®</sup> Office 2003, 2007, and 2010.

The software templates prompt students through the key steps in the financial decision-making process as they complete the Building Your Own Financial Plan exercises. The software's true power lies in the linking of all the worksheets; students are prompted to revise their goals, cash flow statement, and personal balance sheet to demonstrate their understanding of the interrelationships among their financial decisions. Creating a complete and integrated plan has never been this easy!

Additional software features include the following:

- New calculation-based templates on topics such as determining one's federal income tax liability, reconciling a checking account, estimating the time it will take to pay off credit card debt, and determining disability insurance needs.
- For decisions that require time value of money analysis, the software directs students for input and then performs the calculations.
- Enhanced graphics such as pie charts and bar graphs that are generated based on user input aid students in visualizing their cash outflows and asset allocation.

## Companion Website

Available at [www.pearsonhighered.com/madura](http://www.pearsonhighered.com/madura), the Web site provides online access to innovative teaching and learning tools, including:

- Financial Planning Software Spreadsheets
- Financial Calculator Guide
- Up-to-date links to the Financial Planning Online features and Financial Planning Online Exercises.

## CourseSmart for Instructors

CourseSmart goes beyond traditional teaching resources to provide instant, online access to the textbooks and course materials you need at a lower cost to students. And while students save money, you can save time and hassle with a digital textbook that allows you to search the most relevant content at the very moment you need it. Whether it's for evaluating textbooks or creating lecture notes to help students with difficult concepts, CourseSmart can make life a little easier. See how by visiting the CourseSmart Web site at [www.coursesmart.com/instructors](http://www.coursesmart.com/instructors).

## CourseSmart for Students

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# Financial Literacy

## PRE-TEST

The following test will help you determine how much you already know about personal finance. It contains basic questions that can determine your ability to make proper financial planning decisions. This text explains the concepts identified in the test that are essential to make financial planning decisions. It also covers more analytical concepts that can allow you to develop an effective financial plan.

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  - a. liquidity problem
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  - c. opportunity cost
  - d. none of the above
2. \_\_\_\_\_ sell shares to individuals and invest the proceeds in investment instruments such as bonds or stocks.
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  - c. FBI
  - d. Secret Service
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  - a. annual percentage rate (APR)
  - b. money market rate (MMR)
  - c. effective annual rate (EAR)
  - d. debit card rate (DCR)

9. Which of the following is not a disadvantage of leasing?
- You may have to purchase more car insurance than you already have.
  - You must worry about finding a buyer for the car at the end of the lease period.
  - You have no equity investment in the car.
  - You may be charged if you drive more than a maximum number of miles specified in the original lease agreement.
10. When purchasing a home, which of the following costs will you not incur?
- closing costs
  - loan application fee
  - realtor's commission
  - down payment
11. A deductible of \$500 requires \_\_\_\_\_.
- you to pay the first \$500 in damages
  - the party at fault to pay the first \$500 in damages
  - the insurance company to pay the first \$500 in damages
  - none of the above
12. \_\_\_\_\_ is not a source of disability income insurance.
- Insurance from Social Security
  - Employer disability insurance
  - Insurance from Worker's Compensation
  - All of the above are sources of disability income insurance.
13. For a given life insurance policy with specific benefits, the insurance premium is \_\_\_\_\_ related to one's age.
- rarely
  - never
  - positively
  - inversely
14. \_\_\_\_\_ is not a common investment mistake made by individuals.
- making decisions based on unrealistic goals
  - borrowing to invest
  - taking risks to recover losses from previous investments
  - All of the above are common investment mistakes made by individuals.
15. If a stock market is \_\_\_\_\_, this implies that stock prices fully reflect information that is available to investors.
- highly leveraged
  - systematic
  - efficient
  - perfect
16. The \_\_\_\_\_ a bond provides credit.
- shareholder of
  - investor in
  - issuer of
  - none of the above
17. Which of the following is not a motive for investing in mutual funds?
- the expertise of the portfolio managers who decide how to invest the money you provide
  - mutual funds designed to meet specific investment goals
  - investing in a broadly diversified portfolio with a small initial investment
  - All of the above are motives for investing in mutual funds.
18. The price at which an option can be exercised is the \_\_\_\_\_.
- premium
  - put add-on
  - call price
  - exercise price
19. Individuals subject to a \_\_\_\_\_ income tax rate enjoy the greatest tax benefits as a result of using a retirement plan.
- middle
  - high
  - zero
  - low
20. The executor of a will is also referred to as the \_\_\_\_\_.
- grantor
  - guardian
  - personal representative
  - trustee

**Answers**

- |       |       |
|-------|-------|
| 1. C  | 11. A |
| 2. C  | 12. D |
| 3. C  | 13. C |
| 4. A  | 14. D |
| 5. C  | 15. C |
| 6. C  | 16. B |
| 7. A  | 17. D |
| 8. A  | 18. D |
| 9. B  | 19. B |
| 10. C | 20. C |

# Overview of a Financial Plan

Imagine that you are taking a vacation next year. You have many financial choices to make. How big is your vacation budget and how do you want to allocate it? The more money that you save now, the more you will have to spend on your vacation.

Now, imagine that you are planning your financial future. You have many choices to make. How much of your budget should be allocated to food and utilities? How much can you afford to spend on clothes? Should you spend all of your

money as you earn it, or should you use some money for investment opportunities? Should you buy a new car? Should you buy a house? If so, what type of house should you buy? When do you want to retire? Do you want to leave an estate for your heirs? All of these decisions require detailed planning.

In a world where there are few guarantees, thorough financial planning, prudent financial management, and careful spending can help you achieve your financial goals.

The personal financial planning process enables you to understand a financial plan and to develop a personal financial plan. The simple objective of financial planning is to make the best use of your resources to achieve your financial goals. The sooner you develop your goals and a financial plan to achieve those goals, the easier it will be to achieve your objectives.



**MyFinanceLab** helps you master the topics in this chapter and study more efficiently. Visit [www.myfinancelab.com](http://www.myfinancelab.com) for more details.

## The objectives of this chapter are to:

- Explain how you benefit from personal finance
- Identify the key components of a financial plan
- Outline the steps involved in developing your financial plan

### personal finance (personal financial planning)

The process of planning your spending, financing, and investing to optimize your financial situation.

### personal financial plan

A plan that specifies your financial goals and describes the spending, financing, and investing plans that are intended to achieve those goals.

### ECONOMIC IMPACT



Personal finance has become even more critical since the 2008–2009 financial crisis, as this caused the wealth of many people to be reduced substantially. The values of many homes were cut in half or more and still have not fully recovered. The values of many types of investments were cut in half or more, and they too still have not fully recovered. Economic conditions are still not as strong as in the period before the crisis, which have limited the available jobs. Overall, people have less wealth and fewer opportunities to earn income. Thus, they need an effective financial plan to achieve their financial goals.

You will have numerous options regarding the choice of bank deposits, credit cards, loans, insurance policies, investments, and retirement plans. With an understanding of personal finance, you will be able to make decisions that can enhance your financial situation.

How much do you know about personal finance? Various government agencies in different countries have attempted to assess financial literacy in recent years. Surveys have documented that people tend to have very limited personal finance skills. In addition, surveys have found that many people who believe they have strong personal finance skills do not understand some basic personal finance concepts. If you haven't already taken the Financial Literacy Pre-Test that precedes this chapter, be sure to take it. You can substantially increase your understanding and improve your financial planning skills by reading this text. An understanding of personal finance is beneficial to you in many ways, including the following.

## Make Your Own Financial Decisions

An understanding of personal finance enables you to make informed decisions about your financial situation. Each of your spending decisions has an **opportunity cost**, which represents what you give up as a result of that decision. By spending money for a specific

### opportunity cost

What you give up as a result of a decision.

## How You Benefit from Personal Finance

**Personal finance** (also referred to as **personal financial planning**) is the process of planning your spending, financing, and investing to optimize your financial situation. A **personal financial plan** specifies your financial goals and describes the spending, financing, and investing plans that are intended to achieve those goals. Although the United States is one of the wealthiest countries, many Americans do not manage their financial situations well. Consequently, they tend to rely too much on credit and have excessive debt. Consider these statistics:

- More than 1 million people filed for personal bankruptcy in 2011.
- The level of savings in the United States is less than 3% of income earned. (Some investments, including retirement accounts, are not included as savings.)
- About half of all surveyed people in the United States who are working full time state that they live from one paycheck to the next, without a plan for saving money.
- About 40% of people who work full time do not save for retirement. Those who do typically save a relatively small amount of money.

purpose, you forgo alternative ways that you could have spent the money and also forgo saving the money for a future purpose. For example, if your decision to use your cell phone costs \$100 per month, you have forgone the possibility of using that money to buy concert tickets or to save for a new car. Informed financial decisions increase the amount of money that you accumulate over time and give you more flexibility to purchase the products and services you want in the future.

## Judge the Advice of Financial Advisers

The personal financial planning process will enable you to make informed decisions about your spending, saving, financing, and investing. Nevertheless, you may prefer to rely on advice from various types of financial advisers. An understanding of personal finance allows you to judge the guidance of financial advisers and to determine whether their advice is in your best interest (or in their best interest).

### EXAMPLE

You want to invest \$10,000 of your savings. A financial adviser guarantees that your investment will increase in value by 20% (or by \$2,000) this year, but he will charge you 4% of the investment (\$400) for his advice. If you have a background in personal finance, you would know that no investment can be guaranteed to increase in value by 20% in one year. Therefore, you would realize that you should not trust this financial adviser. You could either hire a more reputable financial adviser or review investment recommendations made by financial advisers on the Internet (often for free).

## Become a Financial Adviser

An understanding of personal finance may interest you in pursuing a career as a financial adviser. Financial advisers are in demand because many people lack an understanding of personal finance or are not interested in making their own financial decisions. A single course in personal finance is insufficient to start a career as a financial adviser, but it may interest you in taking additional courses to obtain the necessary qualifications.

## Components of a Financial Plan

A complete financial plan contains your personal finance decisions related to six key components:

1. Budgeting and tax planning
2. Managing your liquidity
3. Financing your large purchases
4. Protecting your assets and income (insurance)
5. Investing your money
6. Planning your retirement and estate

Each of the first six parts of this text is devoted to one component of the financial plan, and the seventh part synthesizes these components. To begin your introduction to the financial planning process, let's briefly explore each component.

## A Plan for Your Budgeting and Tax Planning

**Budget planning** (also referred to as **budgeting**) is the process of forecasting future expenses and savings. That is, it requires you to determine how you spend money, the amount of money to spend, and how much to save. Your spending decisions are critical because they determine how much of your income can be used for other purposes.

### **budget planning** **(budgeting)**

The process of forecasting future expenses and savings.





## Your Spending Decisions

### Application:

The Adaptu Wallet app allows you to review your present financial situation before you decide to make a purchase. It shows your present cash flows and your debt, so that you can determine whether you can afford the purchase that you are considering.

### More information at:

[itunes.apple.com/us/app/adaptu-wallet-personal-finance/id478912145?mt=8](https://itunes.apple.com/us/app/adaptu-wallet-personal-finance/id478912145?mt=8)

If you receive \$750 in income during one month, your amount saved is the amount of money (say, \$100) that you do not spend. The relationship between income received, spending, and saving is illustrated in Exhibit 1.1. Some individuals are “big spenders”: they focus their budget decisions on how to spend most or all of their income and therefore have little or no money left for saving. Others are “big savers”: they set a savings goal and consider spending their income received only after allocating a portion of it toward saving. Budgeting can help you estimate how much of your income will be required to cover monthly expenses so that you can set a goal for saving each month.

The first step in budget planning is to evaluate your current financial position by assessing your income, your expenses, your **assets** (what you own), and your **liabilities** (debt, or what you owe). Your **net worth** is the value of what you own minus the value of what you owe. You can measure your wealth by your net worth. As you save money, you increase your assets and therefore increase your net worth. Budget planning enables you to build your net worth by setting aside part of your income to either invest in additional assets or reduce your liabilities.

Your budget is influenced by your income, which in turn is influenced by your education and career decisions. Individuals who pursue higher levels of education tend to have smaller budgets during their education years. After obtaining their degrees, however, they typically are able to obtain jobs that pay higher salaries and therefore have larger budgets.

A key part of budgeting is estimating the typical expenses that you will incur each month. If you underestimate expenses, you will need more cash inflows (money that you receive) than you expected to cover your cash outflows (money that you spend). Achieving a higher level of future wealth requires you to maintain your spending at a lower level today.

#### assets

What you own.

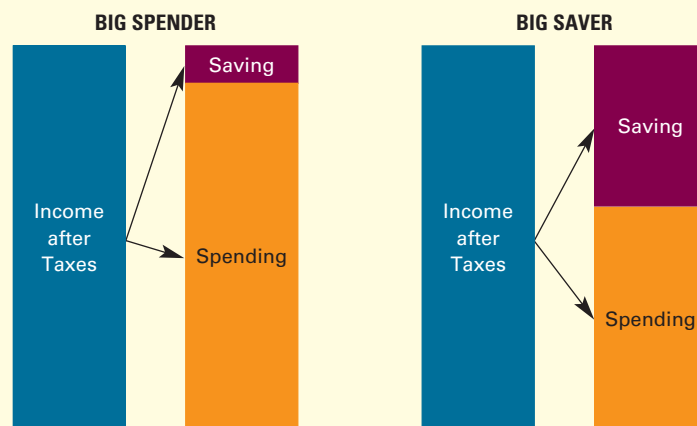
#### liabilities

What you owe; your debt.

#### net worth

The value of what you own minus the value of what you owe.

### EXHIBIT 1.1 How a Budget Plan Affects Savings



Many financial decisions are affected by tax laws, as some forms of income are taxed at a higher rate than others. By understanding how your alternative financial choices would be affected by taxes, you can make financial decisions that have the most favorable effect on your cash flows. Budgeting and tax planning are discussed in Part 1 because they are the basis for decisions about all other parts of your financial plan.

## A Plan to Manage Your Liquidity

You should have a plan for how you will cover your daily purchases. Your expenses can range from your morning cup of coffee to major car repairs. You need to have **liquidity**, or access to funds to cover any short-term cash needs. You can enhance your liquidity by utilizing money management and credit management.

**Money management** involves decisions regarding how much money to retain in a liquid form and how to allocate the funds among short-term investments. If you do not have access to money to cover your cash needs, you may have insufficient liquidity. That is, you have the assets to cover your expenses, but the money is not easily accessible. Finding an effective liquidity level involves deciding how to invest your money so that you can earn a return, but also have easy access to cash if needed. At times, you may be unable to avoid cash shortages because of unanticipated expenses.

**Credit management** involves decisions about how much credit you need to support your spending and which sources of credit to use. Credit is commonly used to cover both large and small expenses when you are short on cash, so it enhances your liquidity. Credit should be used only when necessary, however, as you will need to pay back borrowed funds with interest (and the interest expenses may be very high). The use of money management and credit management to manage your liquidity is illustrated in Exhibit 1.2.

## A Plan for Your Financing

Loans are typically needed to finance large expenditures, such as the payment of college tuition or the purchase of a car or a home. The amount of financing needed is the difference between the amount of the purchase and the amount of money you have available, as illustrated in Exhibit 1.3. Managing loans includes determining how much you can afford to borrow, deciding on the maturity (length of time) of the loan, and selecting a loan that charges a competitive interest rate.

## A Plan for Protecting Your Assets and Income

To protect your assets, you can conduct **insurance planning**, which determines the types and amount of insurance that you need. In particular, automobile insurance and homeowner's insurance protect your assets, while health insurance limits your potential medical expenses. Disability insurance and life insurance protect your income.

### liquidity

Access to funds to cover any short-term cash deficiencies.

### money management

Decisions regarding how much money to retain in a liquid form and how to allocate the funds among short-term investment instruments.

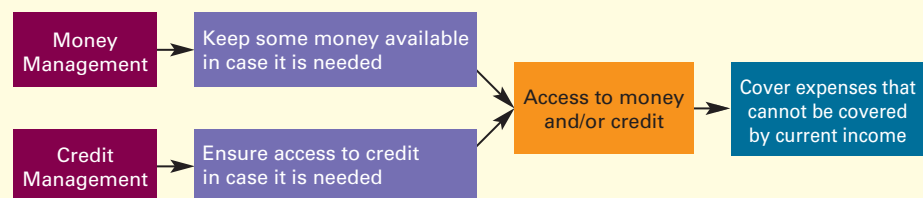
### credit management

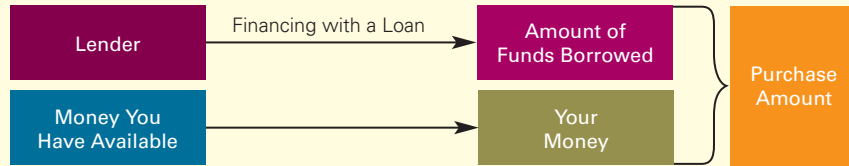
Decisions regarding how much credit to obtain to support your spending and which sources of credit to use.

### insurance planning

Determining the types and amount of insurance needed to protect your assets.

### EXHIBIT 1.2 Managing Your Liquidity



**EXHIBIT 1.3** Financing Process

## A Plan for Your Investing

Any funds that you have beyond what you need to maintain liquidity should be invested. Because these funds normally are not used to satisfy your liquidity needs, they can be invested with the primary objective of earning a high return. Potential investments include stocks, bonds, mutual funds, and real estate. You must determine how much of your funds you wish to allocate toward investments and what types of investments you wish to consider. Most investments are subject to **risk** (uncertainty surrounding their potential return), however, so you need to manage them so that your risk is limited to a tolerable level.

### risk

Uncertainty surrounding the potential return on an investment.

## A Plan for Your Retirement and Estate

**Retirement planning** involves determining how much money you should set aside each year for retirement and how you should invest those funds. Retirement planning must begin well before you retire so that you can accumulate sufficient money to invest and support yourself after you retire. Money contributed to various kinds of retirement plans is protected from taxes until it is withdrawn from the retirement account.

**Estate planning** is the act of planning how your wealth will be distributed before or upon your death. Effective estate planning protects your wealth against unnecessary taxes, and ensures that your wealth is distributed in the manner that you desire.

### retirement planning

Determining how much money you should set aside each year for retirement and how you should invest those funds.

### estate planning

Determining how your wealth will be distributed before or upon your death.

## Building Your Own Financial Plan

An effective financial plan enhances your net worth and therefore builds your wealth. In each part of this text, you will have the opportunity to develop a component of your financial plan. At the end of each chapter, the Building Your Own Financial Plan exercise offers you guidance on the key decisions that you can make after reading that chapter. Evaluate your options and make decisions using the Excel-based software on the CD-ROM available with your text. By completing the Building Your Own Financial Plan exercises, you will build a financial plan for yourself by the end of the school term.

## How Financial Plan Decisions Affect Your Cash Flows

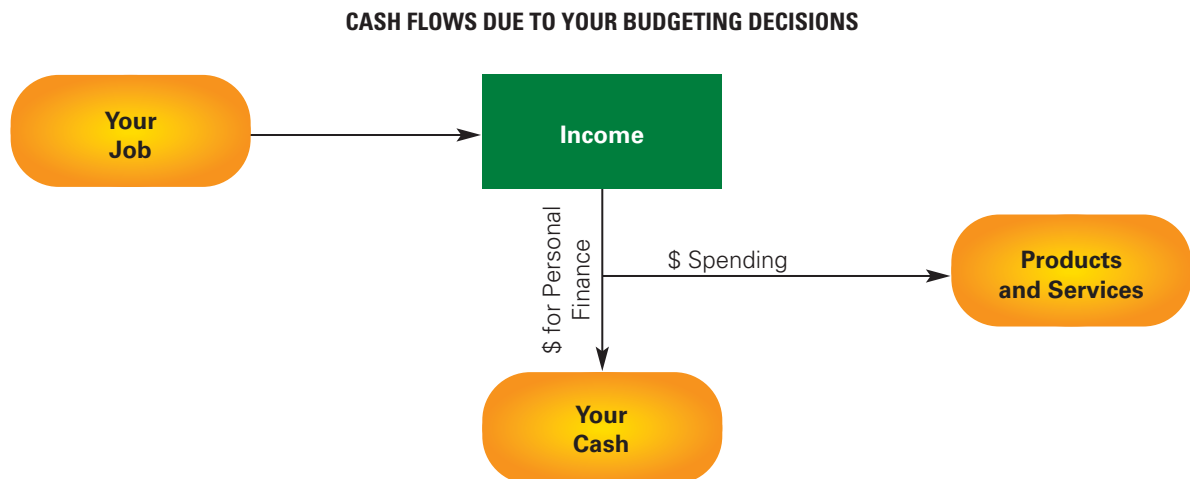
All components of your financial plan affect your cash inflows and cash outflows, and therefore affect the amount of cash you have available. This section explains how each component of your financial plan affects your cash flows.

## Part 1: Tools for Financial Planning

Part 1 of this text focuses on the tools required for budgeting, which is the first component of your financial plan. Budgeting allows you to plan how you will use the cash you receive in a given period (such as a month). Your salary is probably your most important source of cash inflows each month, and it might be your only source of income. You may rely on cash inflows from your income so that you can purchase products or services each month. Your budget decisions determine how much you spend and the amount of your cash outflows each month. If your spending exceeds your income, your cash inflows cannot cover your cash outflows in a particular month, and therefore you will not have any cash to allocate for savings.

Your budget decisions include:

- How much should you work this month (if your employer allows flexibility)? This decision determines your cash inflows for the month.
- What products or services should you purchase this month? This decision determines your cash outflows for the month.



## Part 2: Managing Your Liquidity

Part 2 of this text focuses on liquidity management, which is the second component of your financial plan. When your cash inflows exceed your cash outflows (covered in Part 1) in a particular month, you use liquidity management to decide how much of this cash should be allocated to savings at your financial institution. Conversely, if your cash inflows are less than your cash outflows, you use liquidity management to withdraw savings or obtain funds from another source in order to cover your spending for the month. Your liquidity management decisions include:

- If you have excess cash this month, how much cash should you add to your checking or savings account?
- If you have a cash deficiency this month, how much cash should you withdraw from your checking or savings account?
- If you have a cash deficiency this month, how much credit should you use from credit cards or other sources?