FUNDAMENTALS OF FINANCIAL MANAGEMENT

CONCISE EDITION

10E

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CONCISE EDITION

10E

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Preface

When the first edition of *Fundamentals* was published 41 years ago, we wanted to provide an introductory text that students would find interesting and easy to understand. *Fundamentals* immediately became the leading undergraduate finance text, and it has maintained that position ever since. However, over the years, as *Fundamentals* got larger and larger, we heard more and more often that it was difficult to cover the entire book in a single term. These concerns led us to create *Fundamentals of Financial Management Concise* 24 years ago. When designing *Concise*, we had in mind those instructors who wanted to retain *Fundamentals*' depth and level but eliminate some less essential topics. As is the case with *Fundamentals*, our continuing goal is to produce a book and ancillary package that sets a new standard for finance textbooks.

Finance is an exciting and continually changing field. Since the last edition, many important changes have occurred within the global financial environment. In the midst of this changing environment, it is certainly an interesting time to be a finance student. In this latest edition, we highlight and analyze the events leading to these changes from a financial perspective. Although the financial environment is ever changing, the tried-and-true principles that the book has emphasized over the past four decades are now more important than ever.

Structure of the Book

Our target audience is a student taking his or her first, and perhaps only, finance course. Some of these students will decide to major in finance and go on to take courses in investments, money and capital markets, and advanced corporate finance. Others will choose marketing, management, or some other nonfinance business major. Still others will major in areas other than business and take finance plus a few other business courses to gain information that will help them in law, real estate, or other fields.

Our challenge has been to provide a book that serves all of these audiences well. We focus on the core principles of finance, including the basic topics of time value of money, risk analysis, and valuation. In each case, we address these topics from two points of view: (1) that of an investor who is seeking to make intelligent investment choices and (2) that of a business manager trying to maximize the value of his or her firm's stock. Both investors and managers need to understand the same set of principles, so the core topics are important to students regardless of what they choose to do after they finish the course.

In planning the book's structure, we first listed the core topics in finance that are important to virtually everyone. Included were an overview of financial markets, methods used to estimate the cash flows that determine asset values, the time value of money, the determinants of interest rates, the basics of risk analysis, and the basics of bond and stock valuation procedures. We cover these core topics in the first nine chapters. Next, because most students in the course will probably work for a business firm, we want to show them how the core ideas are implemented in practice. Therefore, we go on to discuss cost of capital, capital budgeting, capital structure, dividend policy, working capital management, financial forecasting, and international operations.

Non-finance majors sometimes wonder why they need to learn finance. As we have structured the book, it quickly becomes obvious to everyone why they

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need to understand time value, risk, markets, and valuation. Virtually all students enrolled in the basic course expect at some point to have money to invest, and they quickly realize that the knowledge gained from Chapters 1 through 9 will help them make better investment decisions. Moreover, students who plan to go into the business world soon realize that their own success requires that their firms be successful, and the topics covered in Chapters 10 through 17 will be helpful here. For example, good capital budgeting decisions require accurate forecasts from people in sales, marketing, production, and human resources, and non-financial people need to understand how their actions affect the firm's profits and future performance.

Organization of the Chapters: A Valuation Focus

As we discuss in Chapter 1, in an enterprise system such as that of the United States, the primary goal of financial management is to maximize their firms' values. At the same time, we stress that managers should not do "whatever it takes" to increase the firm's stock price. Managers have a responsibility to behave ethically, and when striving to maximize value, they must abide by constraints such as not polluting the environment, not engaging in unfair labor practices, not breaking the antitrust laws, and the like. In Chapter 1, we discuss the concept of valuation, explain how it depends on future cash flows and risk, and show why value maximization is good for society in general. This valuation theme runs throughout the text.

Stock and bond values are determined in the financial markets, so an understanding of those markets is essential to anyone involved with finance. Therefore, Chapter 2 covers the major types of financial markets, the rates of return that investors have historically earned on different types of securities, and the risks inherent in these securities. This information is important for anyone working in finance, and it is also important for anyone who has or hopes to own any financial assets. In this chapter, we also highlight how this environment has changed in the aftermath of the financial crisis.

Asset values depend in a fundamental way on earnings and cash flows as reported in the accounting statements. Therefore, we review those statements in Chapter 3 and then, in Chapter 4, show how accounting data can be analyzed and used to measure how well a company has operated in the past and how well it is likely to perform in the future.

Chapter 5 covers the time value of money (TVM), perhaps the most fundamental concept in finance. The basic valuation model, which ties together cash flows, risk, and interest rates, is based on TVM concepts, and these concepts are used throughout the remainder of the book. Therefore, students should allocate plenty of time to studying Chapter 5.

Chapter 6 deals with interest rates, a key determinant of asset values. We discuss how interest rates are affected by risk, inflation, liquidity, the supply of and demand for capital in the economy, and the actions of the Federal Reserve. The discussion of interest rates leads directly to the topics of bonds in Chapter 7 and stocks in Chapters 8 and 9, where we show how these securities (and all other financial assets) are valued using the basic TVM model.

The background material provided in Chapters 1 through 9 is essential to both investors and corporate managers. These are finance topics, not business or corporate finance topics as those terms are commonly used. Thus, Chapters 1 through 9 concentrate on the concepts and models used to establish values,

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whereas Chapters 10 through 17 focus on specific actions managers can take to maximize their firms' values.

Because most business students don't plan to specialize in finance, they might think the business finance chapters are not particularly relevant to them. This is most decidedly not true, and in the later chapters we show that all really important business decisions involve every one of a firm's departments—marketing, accounting, production, and so on. Thus, although a topic such as capital budgeting can be thought of as a financial issue, marketing people provide inputs on likely unit sales and sales prices, manufacturing people provide inputs on costs, and so on. Moreover, capital budgeting decisions influence the size of the firm, its products, its profits, and its stock price, and those factors affect all of the firm's employees, from the CEO to the mail room staff.

Innovations for the Tenth Edition

A great deal has happened in the financial markets and corporate America since the 9th edition was published. In this Tenth Edition, we have made several important changes to reflect this dynamic environment. Here is a brief summary of the more significant changes.

1. Today's students are tomorrow's business and government leaders, and it is essential that they understand the key principles of finance and the important role that financial markets and institutions have on our economy. Since the last edition, a number of key events have significantly influenced the financial markets and finance in general. Over the last few years, we have witnessed continued sluggishness but steady improvement in the world economy, a dramatic reduction in oil prices, the surprise election of President Donald J. Trump in November 2016, and continued unrest overseas. At the same time, the Federal Reserve has begun to slowly increase interest rates in the aftermath of its aggressive policy of quantitative easing that had pushed interest rates to the lowest levels in years. We have also witnessed between August 2014 and August 2018 the continued dramatic run-up in the U.S. stock market to record-high levels. Throughout the Tenth Edition, we discuss these events and their implications for financial markets and corporate managers, and we use these examples to illustrate the importance of the key concepts covered in *Concise* for investors, businesses, and even government officials.
2. In December 2017, Congress passed the Tax Cuts and Jobs Act. We have described the act's key features and have highlighted its important impacts throughout the text. More specifically, in Chapter 3 (Financial Statements, Cash Flow, and Taxes), we incorporate the act's effects in our newly revised illustrative financial statements and in our discussion of individual and corporate tax rates and tax provisions. In Chapter 10 (The Cost of Capital), we discuss a firm's capital components and the new law's impact on a firm's after-tax cost of debt and therefore its WACC. In Chapter 12 (Cash Flow Estimation and Risk Analysis), we illustrate the act's impact on a project's free cash flows due to immediate 100% expensing of certain new and used business assets and the lower corporate tax rate. In Chapter 13 (Capital Structure and Leverage), we illustrate the lower corporate tax rate's impact on a firm's optimal capital structure. In Chapter 14 (Distributions to Shareholders: Dividends and Share Repurchases), we discuss the change in corporate dividend exclusion percentages. In Chapter 16 (Financial Planning

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and Forecasting), we illustrate the lower corporate tax rate's impact on a firm's forecasted financial statements and related forecasted ratios. Finally, we have also revised the relevant end-of-chapter problems and have updated our various ancillaries to take into account the effects of the recent act.

3. In the Tenth Edition, we also continue to highlight the important influences of increased globalization and changing technology. These influences have created new opportunities, but they have also generated new sources of risk for individuals and businesses. Notably, since the last edition, we have seen the phenomenal increase in the stock prices of the FANG (Facebook, Amazon, Netflix, and Google's parent Alphabet). We have also witnessed the initial public offerings of SNAP and Alibaba, the disrupting forces of Uber and Airbnb, the continued rise of Bitcoin and other cryptocurrencies, and several high-profile mergers.
4. Instructors and students continually impress upon us the importance of having interesting and relevant real-world examples. Throughout the Tenth Edition we have added several new examples where recent events help illustrate the key concepts covered in the text. We have added a number of new boxes discussing chapter concepts impacting real-world companies, such as Chapter 2: "Lower Fees Motivate Investors to Move Toward Index Funds"; Chapter 3: "Congress Passes Sweeping Tax Reform Act in 2017"; Chapter 3: "Corporate Tax Rates Around the World"; Chapter 4: "Household Debt Burdens Have Declined in Recent Years"; Chapter 17: "Brexit Shakes Europe"; and Chapter 17: "President Trump Announces New Tariffs." We have also expanded and updated the many tables where we present real-world data, and we have updated our Taking a Closer Look Problems. Finally, as is always the case, we have made significant changes to many of the opening vignettes that precede each chapter.
5. Behavioral finance theory continues to have an important influence on the academic literature and it has in many ways reshaped the way that many of us think about financial markets and corporate finance. In addition, we continue to highlight the importance of securitization, the role of derivatives, and the increasing importance of hedge funds, mutual funds, and private equity firms.
6. We have added a discussion on traditional and Roth IRAs.
7. In Chapter 3, we revised the definition of operating working capital. Following real-world practices and the increase in the number of companies with extremely large cash holdings, we now exclude excess cash from our calculation of operating current assets. In response to this change, we also now allow for non-operating assets in our estimates of stock valuation in Chapter 9.
8. We updated the exchange rate data in Chapter 17 to reflect what's currently going on in the world. All figures and text discussion have been updated accordingly, including "Hungry for a Big Mac? Go to Egypt," "Stock Market Indexes Around the World," and "Investing in International Stocks" boxes.

Digital Solutions for the Tenth Edition

Changing technology and new ideas have had an exciting and dramatic influence on the ways we teach finance. Innovative instructors are developing and utilizing different classroom strategies, and new technology has allowed us to present key material in a more interesting and interactive fashion. As textbook

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authors, we think these new developments are tremendously exciting, and we have worked closely with our publisher's top team of innovative content and media developers, who have created a whole new set of revolutionary products for the Tenth Edition.

MINDTAP™

MindTap™, Cengage Learning's fully online, highly personalized learning experience combines readings, multimedia activities, and assessments into a singular Learning Path. MindTap™ guides students through their course with ease and engagement with a learning path that includes an Interactive Chapter Reading, Problem Demonstrations, Blueprint Problems, Excel Online Problems, and Homework Assignments powered by Aplia. These homework problems include rich explanations and instant grading, with opportunities to try another algorithmic version of the problem to bolster confidence with problem solving. Instructors can personalize the Learning Path for their students by customizing the robust suite of the Tenth Edition resources and adding their own content via apps that integrate into the MindTap™ framework seamlessly with Learning Management Systems.

EXCEL ONLINE PROBLEMS

Microsoft Excel Online activities provide students with an opportunity to work auto-gradable, algorithmic homework problems directly in their browser using Excel Online. Students receive instant feedback on their Excel work, including "by hand" calculations and a solution file containing a recommended way of solving the problem. Students' Excel work is saved in real time in the cloud; is platform, device, and browser independent; and is always accessible with their homework without cumbersome file uploads and downloads. This unique integration represents a direct collaboration between Cengage and Microsoft to strengthen and support the development of Microsoft Office education skills for success in the workplace.

ATP

Adaptive Test Prep allows students to create practice quizzes covering multiple chapters in a low stakes environment. Students receive immediate feedback so they know where they need additional help, and the test bank–like questions prepare students for what to expect on the exam. With many questions offered per chapter, students can create multiple unique practice quizzes within MindTap™.

EXPLORING FINANCE

Exploring Finance offers instructors and students interactive visualizations that engage with "lean forward" interactivity. Exploring Finance offers instructors visual, interactive tools that they can use to help students "see" the financial concept being presented directly within MindTap™.

FINANCE IN ACTION

MindTap™ offers a series of Finance in Action analytical cases that assess students' higher level of understanding, critical thinking, and decision making.

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BLUEPRINT PROBLEMS

Written by the authors and located within MindTap™, Blueprints teach students the fundamental finance concepts and their associated building blocks—going beyond memorization. By going through the problems step by step, they reinforce foundational concepts and allow students to demonstrate their understanding of the problem-solving process and business impact of each topic. Blueprints include rich feedback and explanations, providing students with an excellent learning resource to solidify their understanding.

CONCEPTCLIPS

Embedded throughout the new interactive eReader, finance ConceptClips present fundamental key topics to students in an entertaining and memorable way via short animated video clips. Developed by Mike Brandl of The Ohio State University, these vocabulary animations provide students with a memorable auditory and visual representation of the important terminology for the course.

EVEN MORE PROBLEM WALK-THROUGHS

More than 150 Problem Walk-Through videos are embedded in the new interactive MindTap™ eReader and online homework. Each video walks students through solving a problem from start to finish, and students can play and replay the tutorials as they work through homework assignments or prepare for quizzes and tests, almost as though they had an instructor by their side the whole time.

COGNERO™ TESTING SOFTWARE

Cengage Learning Testing Powered by Cognero™ is a flexible, online system that allows you to author, edit, and manage test bank content from multiple Cengage Learning solutions, create multiple test versions in an instant, and deliver tests from your LMS, your classroom, or wherever you want. Revised to reflect concepts covered in the Tenth Edition, the Cognero™ Test Bank is tagged according to Tier I (AACSB Business Program Interdisciplinary Learning Outcomes) and Tier II (Finance specific) topic, Bloom's Taxonomy, and difficulty level. In addition to these changes, we have also significantly updated and improved our more traditional ancillary package, which includes the Instructor's Manual, Test Bank, Excel Chapter Models, Excel Chapter Integrated Case Models, Excel Spreadsheet Problem Models, and PowerPoints for Chapter Integrated Cases.

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The book reflects the efforts of a great many people, both those who worked on *Concise* and our related books in the past and those who worked specifically on this Tenth Edition. First, we would like to thank Dana Aberwald Clark, who worked closely with us at every stage of the revision—her assistance was absolutely invaluable.

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Errors in the Textbook

At this point, most authors make a statement such as this: "We appreciate all the help we received from the people listed above; but any remaining errors are, of course, our own responsibility." And generally there are more than enough remaining errors! Having experienced difficulties with errors ourselves, both as students and instructors, we resolved to avoid this problem in *Concise*. As a result of our detection procedures, we are convinced that few errors remain, but primarily because we want to detect any errors that may have slipped by so that we can correct them in subsequent printings, we decided to offer a reward of $10 to the first person who reports an error in the printed textbook or the corresponding e-book. For the purpose of this reward, errors are defined as misspelled words,

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Conclusion

Finance is, in a real sense, the cornerstone of the enterprise system—good financial management is vitally important to the economic health of all firms and hence to the nation and the world. Because of its importance, finance should be widely and thoroughly understood, but this is easier said than done. The field is complex, and it undergoes constant change due to shifts in economic conditions. All of this makes finance stimulating and exciting, but challenging and sometimes perplexing. We sincerely hope that this Tenth Edition of *Concise* will meet its own challenge by contributing to a better understanding of our financial system.

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part 1

Introduction to Financial Management

CHAPTERS

1 An Overview of Financial Management

2 Financial Markets and Institutions

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An Overview of Financial Management

CHAPTER 1

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Striking the Right Balance

In 1776, Adam Smith described how an "invisible hand" guides companies as they strive for profits, and that hand leads them to decisions that benefit society. Smith's insights led him to conclude that profit maximization is the right goal for a business and that the free enterprise system is best for society. But the world has changed since 1776. Firms today are much larger, they operate globally, they have thousands of employees, and they are owned by millions of stockholders. This makes us wonder if the "invisible hand" still provides reliable guidance: Should companies still try to maximize profits, or should they take a broader view and more balanced actions designed to benefit customers, employees, suppliers, and society as a whole?

Many academics and finance professionals today subscribe to the following modified version of Adam Smith's theory:

- A firm's principal financial goal should be to maximize the wealth of its stockholders, which means maximizing the value of its stock.
- Free enterprise is still the best economic system for society as a whole. Under the free enterprise framework, companies develop products and services that people want and that benefit society.
- However, some constraints are needed—firms should not be allowed to pollute the air and water, to engage in unfair employment practices, or to create monopolies that exploit consumers.

These constraints take a number of different forms. The first set of constraints is the costs that are assessed on companies if they take actions that harm society. Another set of constraints arises through the political process, where society imposes a wide range of regulations that are designed to keep companies from engaging in practices that are harmful to society. Properly imposed, these costs fairly transfer value to suffering parties and help create incentives that help prevent similar events from occurring in the future.

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The financial crisis in 2007 and 2008 dramatically illustrates these points. We witnessed many Wall Street firms engaging in extremely risky activities that pushed the financial system to the brink of collapse. Saving the financial system required a bailout of the banks and other financial companies, and that bailout imposed huge costs on taxpayers and helped push the economy into a deep recession. Apart from the huge costs imposed on society, the financial firms also paid a heavy price—a number of leading financial institutions saw a huge drop in their stock price, some failed and went out of business, and many Wall Street executives lost their jobs.

Arguably, these costs are not enough to prevent another financial crisis from occurring. Many maintain that the events surrounding the financial crisis illustrate that markets don't always work the way they should and that there is a need for stronger regulation of the financial sector. For example, in his recent books, Nobel Laureate Joseph Stiglitz makes a strong case for enhanced regulation. At the same time, others with a different political persuasion continue to express concerns about the costs of excessive regulation.

Beyond the financial crisis, there is a broader question of whether laws and regulations are enough to compel firms to act in society's interest. An increasing number of companies continue to recognize the need to maximize shareholder value, but they also see their mission as more than just making money for shareholders. Google's parent company Alphabet's motto is "Do the right thing—follow the law, act honorably, and treat each other with respect." Consistent with this mission, the company has its own in-house foundation that each year makes large investments in a wide range of philanthropic ventures worldwide.

Microsoft is another good example of a company that has earned a well-developed reputation for taking steps to be socially responsible. On its corporate blog, the company recently released its 2017 Corporate Social Responsibility Report. In this report, Microsoft highlighted its broader mission:

> We continue to be guided by our mission to **empower every person and every organization on the planet to achieve more**. The breadth and depth of our mission unlock unprecedented opportunity as technology transforms every industry and has the power to make a difference in the lives of everyone. We strive to create local opportunity, growth and impact in every community and country around the world. Our platforms and tools enable creativity in all of us, and help drive small-business productivity, large business competitiveness and public-sector efficiency. They also support new startups, improve educational and health outcomes, and empower human ingenuity. Our sense of purpose lies in our customers' success.

The report goes on to say:

> Our mission to empower every person and every organization on the planet extends to our corporate social responsibility efforts. We strive to use our technology, grants, employees and voice to improve people's lives by enabling access to the benefits and opportunities that technology offers.

For nearly the past two decades, Microsoft's co-founder Bill Gates and his wife, Melinda Gates, have also dedicated the bulk of their time, money, and energy to the Bill & Melinda Gates Foundation, which has made notable investments aimed at attacking some of society's toughest problems on a global level. In its 2016 annual report, the Foundation reports an endowment of over $40 billion and indicates that it had made $41.3 billion in grant payments through the end of 2016. The Foundation has also attracted a well-known benefactor in Warren Buffett, who announced in 2006 that he was going to give a significant portion of his fortune to the Gates Foundation. To date, Buffett has already contributed more than $19 billion, and he has pledged considerably more over time.

While many companies and individuals have taken very significant steps to demonstrate their commitments to being socially responsible, corporate managers frequently face a tough balancing act. Realistically, there will still be cases where companies face conflicts between their various constituencies—for example, a company may enhance shareholder value by laying off some workers, or a change in policy may improve the environment but reduce shareholder value. We also have seen recent examples where leading tech companies such as Facebook and Google have come under fire for their handling of their users' private information. In each of these instances, managers have to balance these competing interests and different managers will clearly make different choices. At the end of the day, all companies struggle to find the right balance. Enlightened managers recognize that there is more to life than money, but it often takes money to do good things.

Sources: Kevin J. Delaney, "Google: From 'Don't Be Evil' to How to Do Good," *The Wall Street Journal*, January 18, 2008, pp. B1–B2; Joseph E. Stiglitz, *FreeFall: America, Free Markets, and the Sinking of the World Economy* (New York: W.W. Norton, 2010); Joseph E. Stiglitz, *The Price of Inequality* (New York: W.W. Norton, 2012); "Microsoft 2017 Corporate Social Responsibility Report," www.microsoft.com/en-us/about/corporate-responsibility/reports-hub, October 16, 2017; and "Gates Foundation Fact Sheet," www.gatesfoundation.org/Who-We-Are/General-Information/Foundation-Factsheet.

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PUTTING THINGS IN PERSPECTIVE

This chapter will give you an idea of what financial management is all about. We begin the chapter by describing how finance is related to the overall business environment, by pointing out that finance prepares students for jobs in different fields of business, and by discussing the different forms of business organization. For corporations, management's goal should be to maximize shareholder wealth, which means maximizing the value of the stock. When we say "maximizing the value of the stock," we mean the "true, long-run value," which may be different from the current stock price. In the chapter, we discuss how firms must provide the right incentives for managers to focus on long-run value maximization. Good managers understand the importance of ethics, and they recognize that maximizing long-run value is consistent with being socially responsible.

When you finish this chapter, you should be able to do the following:

- **Explain the role of finance and the different types of jobs in finance.**
- **Identify the advantages and disadvantages of different forms of business organization.**
- **Explain the links between stock price, intrinsic value, and executive compensation.**
- **Identify the potential conflicts that arise within the firm between stockholders and managers and between stockholders and bondholders, and discuss the techniques that firms can use to mitigate these potential conflicts.**
- **Discuss the importance of business ethics and the consequences of unethical behavior.**

1-1 What Is Finance?

Finance is defined by *Webster's Dictionary* as "the system that includes the circulation of money, the granting of credit, the making of investments, and the provision of banking facilities." Finance has many facets, which makes it difficult to provide one concise definition. The discussion in this section will give you an idea of what finance professionals do and what you might do if you enter the finance field after you graduate.

1-1A AREAS OF FINANCE

Finance as taught in universities is generally divided into three areas: (1) financial management, (2) capital markets, and (3) investments.

Financial management, also called corporate finance, focuses on decisions relating to how much and what types of assets to acquire, how to raise the capital needed to purchase assets, and how to run the firm so as to maximize its value. The same principles apply to both for-profit and not-for-profit organizations, and as the title suggests, much of this book is concerned with financial management.

Capital markets relate to the markets where interest rates, along with stock and bond prices, are determined. Also studied here are the financial institutions that supply capital to businesses. Banks, investment banks, stockbrokers, mutual funds, insurance companies, and the like bring together "savers" who have money to invest and businesses, individuals, and other entities that need capital for various purposes. Governmental organizations such as the Federal Reserve System,

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which regulates banks and controls the supply of money, and the Securities and Exchange Commission (SEC), which regulates the trading of stocks and bonds in public markets, are also studied as part of capital markets.

Investments relate to decisions concerning stocks and bonds and include a number of activities: (1) *Security analysis* deals with finding the proper values of individual securities (i.e., stocks and bonds). (2) *Portfolio theory* deals with the best way to structure portfolios, or "baskets," of stocks and bonds. Rational investors want to hold diversified portfolios in order to limit risks, so choosing a properly balanced portfolio is an important issue for any investor. (3) *Market analysis* deals with the issue of whether stock and bond markets at any given time are "too high," "too low," or "about right." Included in market analysis is *behavioral finance,* where investor psychology is examined in an effort to determine whether stock prices have been bid up to unreasonable heights in a speculative bubble or driven down to unreasonable lows in a fit of irrational pessimism.

Although we separate these three areas, they are closely interconnected. Banking is studied under capital markets, but a bank lending officer evaluating a business' loan request must understand corporate finance to make a sound decision. Similarly, a corporate treasurer negotiating with a banker must understand banking if the treasurer is to borrow on "reasonable" terms. Moreover, a security analyst trying to determine a stock's true value must understand corporate finance and capital markets to do his or her job. In addition, financial decisions of all types depend on the level of interest rates; so all people in corporate finance, investments, and banking must know something about interest rates and the way they are determined. Because of these interdependencies, we cover all three areas in this book.

1-1B FINANCE WITHIN AN ORGANIZATION

Most businesses and not-for-profit organizations have an organization chart similar to the one shown in Figure 1.1. The board of directors is the top governing body, and the chairperson of the board is generally the highest-ranking individual. The chief executive officer (CEO) comes next, but note that the chairperson of the board often also serves as the CEO. Below the CEO comes the chief operating officer (COO), who is often also designated as a firm's president. The COO directs the firm's operations, which include marketing, manufacturing, sales, and other operating departments. The chief financial officer (CFO), who is generally a senior vice president and the third-ranking officer, is in charge of accounting, finance, credit policy, decisions regarding asset acquisitions, and investor relations, which involves communications with stockholders and the press.

*The duties of the CFO have broadened over the years. CFO magazine's online service, **ww2.cfo.com**, is an excellent source of timely finance articles intended to help the CFO manage those new responsibilities.*

If the firm is publicly owned, the CEO and the CFO must both certify to the SEC that reports released to stockholders, and especially the annual report, are accurate. If inaccuracies later emerge, the CEO and the CFO could be fined or even jailed. This requirement was instituted in 2002 as a part of the **Sarbanes-Oxley Act**. The act was passed by Congress in the wake of a series of corporate scandals involving now-defunct companies such as Enron and WorldCom, where investors, workers, and suppliers lost billions of dollars due to false information released by those companies.

Sarbanes-Oxley Act
A law passed by Congress that requires the CEO and CFO to certify that their firm's financial statements are accurate.

1-1C FINANCE VERSUS ECONOMICS AND ACCOUNTING

Finance, as we know it today, grew out of economics and accounting. Economists developed the notion that an asset's value is based on the future cash flows the asset will provide, and accountants provided information regarding the likely size of those cash flows. People who work in finance need knowledge of both economics and accounting. Figure 1.1 illustrates that in the modern corporation, the accounting department typically falls under the control of the CFO. This further illustrates the link among finance, economics, and accounting.

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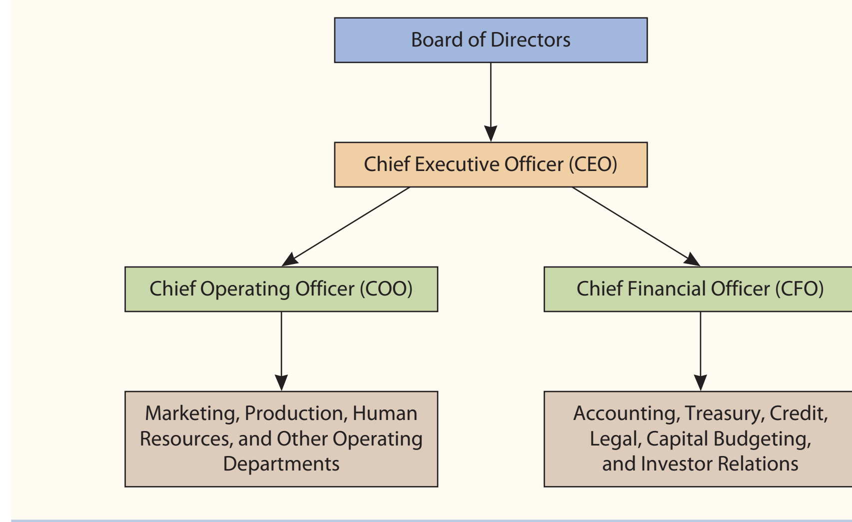
FIGURE 1.1 Finance within the Organization



Self*Test*

What three areas of finance does this book cover? Are these areas independent of one another, or are they interrelated in the sense that someone working in one area should know something about each of the other areas? Explain.

Who is the CFO, and where does this individual fit into the corporate hierarchy? What are some of his or her responsibilities?

Does it make sense for not-for-profit organizations such as hospitals and universities to have CFOs? Why or why not?

What is the relationship among economics, finance, and accounting?

1-2 Jobs in Finance

*To find information about different finance careers, go to **allbusinessschools.com/business-careers/finance/job-description**. This website provides information about different finance areas.*

Finance prepares students for jobs in banking, investments, insurance, corporations, and government. Accounting students need to know marketing, management, and human resources; they also need to understand finance, for it affects decisions in all those areas. For example, marketing people propose advertising programs, but those programs are examined by finance people to judge the effects of the advertising on the firm's profitability. So to be effective in marketing, one needs to have a basic knowledge of finance. The same holds for management—indeed, most important management decisions are evaluated in terms of their effects on the firm's value.

It is also worth noting that finance is important to individuals regardless of their jobs. Some years ago most employees received pensions from their employers upon retirement, so managing one's personal investments was not critically important. That's no longer true. Most firms today provide "defined contribution" pension plans, where each year the company puts a specified amount of money into an account that belongs to the employee. The employee must decide how those funds are to be invested—how much should be divided among stocks, bonds, or money funds—and how much risk they're willing to take with their

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stock and bond investments. These decisions have a major effect on people's lives, and the concepts covered in this book can improve decision-making skills.

efinancialcareers.com *provides finance career news and advice including information on who's hiring in finance and accounting fields.*

1-3 Forms of Business Organization

The basics of financial management are the same for all businesses, large or small, regardless of how they are organized. Still, a firm's legal structure affects its operations and thus should be recognized. There are four main forms of business organizations: (1) proprietorships, (2) partnerships, (3) corporations, and (4) limited liability companies (LLCs) and limited liability partnerships (LLPs). In terms of numbers, most businesses are proprietorships. However, based on the dollar value of sales, more than 80% of all business is done by corporations.[1] Because corporations conduct the most business and because most successful businesses eventually convert to corporations, we focus on them in this book. Still, it is important to understand the legal differences between types of firms.

A **proprietorship** is an unincorporated business owned by one individual. Going into business as a sole proprietor is easy—a person begins business operations. Proprietorships have three important advantages: (1) They are easy and inexpensive to form. (2) They are subject to few government regulations. (3) They are subject to lower income taxes than are corporations. However, proprietorships also have three important limitations: (1) Proprietors have unlimited personal liability for the business' debts, so they can lose more than the amount of money they invested in the company. You might invest $10,000 to start a business but be sued for $1 million if, during company time, one of your employees runs over someone with a car. (2) The life of the business is limited to the life of the individual who created it, and to bring in new equity, investors require a change in the structure of the business. (3) Because of the first two points, proprietorships have difficulty obtaining large sums of capital; hence, proprietorships are used primarily for small businesses. However, businesses are frequently started as proprietorships and then converted to corporations when their growth results in the disadvantages outweighing the advantages.

Proprietorship
An unincorporated business owned by one individual.

A **partnership** is a legal arrangement between two or more people who decide to do business together. Partnerships are similar to proprietorships in that they can be established relatively easily and inexpensively. Moreover, the firm's income is allocated on a pro rata basis to the partners and is taxed on an individual basis. This allows the firm to avoid the corporate income tax. However, all of the partners are generally subject to unlimited personal liability, which means that if a partnership goes bankrupt and any partner is unable to meet his or her pro rata share of the firm's liabilities, the remaining partners will be responsible for making good on the unsatisfied claims. Thus, the actions of a Texas partner can bring ruin to a millionaire New York partner who had nothing to do with the actions that led to the downfall of the company. Unlimited liability makes it difficult for partnerships to raise large amounts of capital.[2]

Partnership
An unincorporated business owned by two or more persons.

[1]Refer to *ProQuest Statistical Abstract of the United States: 2017 Online Edition*, Table 768: Number of Tax Returns, Receipts, and Net Income by Type of Business: 1990 to 2013.

[2]Originally, there were just straightforward partnerships, but over the years lawyers have created a number of variations. We leave the variations to courses on business law, but we note that the variations are generally designed to limit the liabilities of some of the partners. For example, a *limited partnership* has a general partner, who has unlimited liability, and one or more limited partners, whose liability is limited to the amount of their investment. This sounds great from the standpoint of limited liability, but the limited partners must cede sole control to the general partner, which means that they have almost no say in the way the firm is managed. With a corporation, the owners (stockholders) have limited liability, but they also have the right to vote and thus change management if they think that a change is in order. Note too that LLCs and LLPs, discussed later in this section, are increasingly used in lieu of partnerships.

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Corporation
A legal entity created by a state, separate and distinct from its owners and managers, having unlimited life, easy transferability of ownership, and limited liability.

A **corporation** is a legal entity created by a state, and it is separate and distinct from its owners and managers. It is this separation that limits stockholders' losses to the amount they invested in the firm—the corporation can lose all of its money, but its owners can lose only the funds that they invested in the company. Corporations also have unlimited lives, and it is easier to transfer shares of stock in a corporation than one's interest in an unincorporated business. These factors make it much easier for corporations to raise the capital necessary to operate large businesses. Thus, companies such as Hewlett-Packard and Microsoft generally begin as proprietorships or partnerships, but at some point they find it advantageous to become a corporation.

A major drawback to corporations is taxes. Most corporations' earnings are subject to double taxation—the corporation's earnings are taxed, and then when its after-tax earnings are paid out as dividends, those earnings are taxed again as personal income to the stockholders. However, as an aid to small businesses, Congress created **S corporations**, which are taxed as if they were proprietorships or partnerships; thus, they are exempt from the corporate income tax.[3] To qualify for S corporation status, a firm can have no more than 100 stockholders, which limits their use to relatively small, privately owned firms. Larger corporations are known as *C corporations*. The vast majority of small corporations elect S status and retain that status until they decide to sell stock to the public, at which time they become C corporations.

S Corporations
A special designation that allows small businesses that meet qualifications to be taxed as if they were a proprietorship or a partnership rather than a corporation.

Limited Liability Company (LLC)
A popular type of organization that is a hybrid between a partnership and a corporation.

Limited Liability Partnership (LLP)
Similar to an LLC but used for professional firms in the fields of accounting, law, and architecture. It provides personal asset protection from business debts and liabilities but is taxed as a partnership.

A **limited liability company (LLC)** is a popular type of organization that is a hybrid between a partnership and a corporation. A **limited liability partnership (LLP)** is similar to an LLC. LLPs are used for professional firms in the fields of accounting, law, and architecture, while LLCs are used by other businesses. Similar to corporations, LLCs and LLPs provide limited liability protection, but they are taxed as partnerships. Further, unlike limited partnerships, where the general partner has full control of the business, the investors in an LLC or LLP have votes in proportion to their ownership interest. LLCs and LLPs have been gaining in popularity in recent years, but large companies still find it advantageous to be C corporations because of the advantages in raising capital to support growth. LLCs/LLPs were dreamed up by lawyers; they are often structured in very complicated ways, and their legal protections often vary by state. So, it is necessary to hire a good lawyer when establishing one.

When deciding on its form of organization, a firm must trade off the advantages of incorporation against double taxation. However, for the following reasons, the value of any business other than a relatively small one will probably be maximized if it is organized as a corporation:

1. Limited liability reduces the risks borne by investors, and, other things held constant, the lower the firm's risk, the higher its value.
2. A firm's value is dependent on its growth opportunities, which are dependent on its ability to attract capital. Because corporations can attract capital more easily than other types of businesses, they are better able to take advantage of growth opportunities.

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[3]Under the new tax law and until January 1, 2026, pass-through entities (S corporations, partnerships, and proprietorships) can deduct 20% of their qualified business income (QBI), which is the net amount of income, gain, deduction, and loss with respect to the trade or business. QBI doesn't include investment-related income or loss. This deduction phases out beginning at $157,500 of income for single taxpayers and $315,000 for couples filing jointly. While the lowered tax rate from 35% to 21% for C corporations is attractive, double taxation remains an issue for them. So, if the bulk of the profits will be taken out of the business and distributed to owners rather than being reinvested in the business, a pass-through entity will be preferable. S corporations are still advantageous in many situations. For more details, refer to Nellie Akalp, "How the New Tax Law Will Affect Your Clients' S Corporations," *Accounting Today* (www.accountingtoday.com), February 6, 2018.

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3. The value of an asset also depends on its liquidity, which means the time and effort it takes to sell the asset for cash at a fair market value. Because the stock of a corporation is easier to transfer to a potential buyer than is an interest in a proprietorship or partnership, and because more investors are willing to invest in stocks than in partnerships (with their potential unlimited liability), a corporate investment is relatively liquid. This too enhances the value of a corporation.

Self*Test*

What are the key differences among proprietorships, partnerships, and corporations?

How are LLCs and LLPs related to the other forms of organization?

What is an S corporation, and what is its advantage over a C corporation? Why don't firms such as IBM, GE, and Microsoft choose S corporation status?

What are some reasons why the value of a business other than a small one is generally maximized when it is organized as a corporation?

1-4 The Main Financial Goal: Creating Value for Investors

In public corporations, managers and employees work on behalf of the shareholders who own the business, and therefore they have an obligation to pursue policies that promote stockholder value. While many companies focus on maximizing a broad range of financial objectives, such as growth, earnings per share, and market share, these goals should not take precedence over the main financial goal, which is to create value for investors. Keep in mind that a company's stockholders are not just an abstract group—they represent individuals and organizations who have chosen to invest their hard-earned cash into the company and who are looking for a return on their investment in order to meet their long-term financial goals, which might be saving for retirement, a new home, or a child's education. In addition to financial goals, the firm also has nonfinancial goals, which we will discuss in Section 1-7.

If a manager is to maximize stockholder wealth, he or she must know how that wealth is determined. Throughout this book, we shall see that the value of any asset is the present value of the stream of cash flows that the asset provides to its owners over time. We discuss stock valuation in depth in Chapter 9, where we see that stock prices are based on cash flows expected in future years, not just in the current year. Thus, stock price maximization requires us to take a long-run view of operations. At the same time, managerial actions that affect a company's value may not immediately be reflected in the company's stock price.

1-4A DETERMINANTS OF VALUE

Figure 1.2 illustrates the situation. The top box indicates that managerial actions, combined with the economy, taxes, and political conditions, influence the level and riskiness of the company's future cash flows, which ultimately determine the company's stock price. As you might expect, investors like higher expected cash flows, but they dislike risk; so the larger the expected cash flows and the lower the perceived risk, the higher the stock's price.

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