

# FINANCE (FIN)

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## **FIN 4000 Financial Modeling and Databases Bootcamp (1 Credit)**

This bootcamp is designed to introduce students to financial databases and to familiarize them with basic financial data analysis using Excel. The goal is for students to become comfortable with platforms such as Capital IQ and WRDS, which they will be using throughout their academic and/or professional careers. In addition, students will acquire a basic command of Excel functionality and efficiency in data analysis, together with modeling best practices and practical finance applications.

## **FIN 4030 Personal Finance (4 Credits)**

This course provides an overview of topics which are critical to lifetime personal financial planning. The premise of the course is that personal financial planning starts early in life and especially as a new college graduate begins a professional career. The main topics in the course include Principles of Taxation, Basics of Estate Planning, Lifetime Asset Allocation, Principles of Insurance, Proper Debt Management, the Real Estate Housing Decision, and College Financial Planning for Children.

## **FIN 4060 Life Cycle/Financial Planning (4 Credits)**

This course is designed for students who are interested in Financial Planning, possibly as a profession. We will cover six of the areas of financial planning: cash flows, protection (insurance), investments, goals (education and retirement), income taxation, and estate planning. This course is part of University of Denver CFP® Certification Financial Planning Education Program.

## **FIN 4090 Wealth Management (4 Credits)**

Wealth Management offers students important skills to become a part of the growing wealth management industry. It includes such topics as the Financial Planning Process, Insurance Basics, Investment Basics and Strategies, Retirement Planning, and Estate Planning. We are pleased to work with the College for Financial Planning (CFFP), located in Denver, to provide instruction from their The Foundations in Financial PlanningSM program. This can lead to the Financial Paraplanner Qualified Professional™ or FPQP™ designation upon successful completion of an Examination. The Examination is administered through the CFFP. The FPQP™ will be a valuable addition to your resume.

## **FIN 4110 Ethics in Finance (4 Credits)**

The objective of this course is to discuss the ethical issues facing financial institutions and professionals and apply ethical principles to the analysis of these issues.

## **FIN 4150 Advanced Business Valuation (4 Credits)**

In this course, students will learn theoretical development, analytical tools and practical approaches to analyze and tackle business valuation issues at the core of the financial professions. The theoretical section of the course provides indepth coverage of the financial theories and models essential to value businesses. The application section provides students with opportunities to apply the valuation principles and techniques to assess business value and develop strategies to create value in a real-world context.

## **FIN 4160 Treasury Management (4 Credits)**

The objective of the course is to provide students with a comprehensive understanding of how various treasury functions are managed in a corporation and build students' capabilities to assume the role of a proficient treasury manager. This course will cover techniques used by major corporations to manage cash, the capital structure, financial risk and working capital. Prerequisite: FIN 4630.

## **FIN 4180 Global Finance (2 Credits)**

This course explores financial management in the international arena. Principal content elements include: The market for foreign exchange, interest rate parity, hedging currency risk, international portfolio management. Prerequisites: FIN 4630.

## **FIN 4200 Financial Investments and Markets (4 Credits)**

Students will learn how households, institutions, firms, and governments interact in financial markets to channel funds from savers to productive uses of capital and provide firms with opportunities to hedge certain risks. This comprehensive understanding of how markets function is essential for anyone with a finance or high-level management role. We will begin by identifying the key institutions in financial markets and how securities come into existence and subsequently trade. We will then learn to measure the risk and return of financial assets while identifying techniques to improve and assess the performance of investment portfolios. Finally, we will introduce derivatives and techniques to wisely hedge firm risks. Prerequisite: FIN 4630.

## **FIN 4320 Equity Analysis (4 Credits)**

This course is an advanced finance course that focuses on the analysis of equity securities. The curriculum is primarily derived from the Candidate Body of Knowledge (CBOK) from the Chartered Financial Analyst® (CFA®) Program. The goal is to teach students how to implement objective, unbiased valuations through an understanding of the valuation process in theory and practice. Prerequisite: FIN 4200.

## **FIN 4330 Portfolio Management and Risk Analytics (4 Credits)**

Case and project approach to foundation of investment portfolio management. This course emphasizes the application of modern portfolio management concepts and risk management principles. Prerequisite: FIN 4200.

## **FIN 4410 Financial Planning & Analysis (4 Credits)**

Advanced course in financial planning and decision-making focusing on capital structure, working capital management, long-range and short-term financial planning, and other corporate events such as mergers and IPOs. Prerequisite: FIN 4630.

**FIN 4420 Capital Expenditure Analysis (4 Credits)**

Advanced course in capital budgeting examining capital allocation processes and procedures and the theory and applied techniques of capital spending and divestment under conditions of certainty and uncertainty. Related issues of cost of capital and leasing also included. Prerequisite: FIN 4630.

**FIN 4500 Financial Modeling (4 Credits)**

Use of various financial software applications to construct models from corporate finance, investments, and financial markets. In particular, the course will cover the application of Excel spreadsheet functions and R programming to various topics including the time value of money, investment projects analysis, financial statements analysis, capital budgeting, portfolio analysis, and data & pivot tables. Prerequisites: FIN 4630.

**FIN 4630 Managerial Finance (4 Credits)**

This course covers analytical skills and tools of finance managers; theoretical concepts and practical applications are included. Topics include ratio analysis, breakeven analysis and leverage, securities valuation, capital budgeting, financial forecasting, and working capital management. Corequisite: ACTG 4610.

**FIN 4700 Topics in Finance (0-4 Credits)**

Topics vary each quarter. Course may be taken more than once if topics are different.

**FIN 4701 Topics in Finance (1-10 Credits)**

Topics vary. For new/experimental courses taught within the Reiman School of Finance.

**FIN 4710 Marsico Investment Fund I (4 Credits)**

A securities analysis and portfolio management practicum in which students manage a University endowment gift donated by Tom and Cydney Marsico. Prerequisite: FIN 4630 (or MBA 4285).

**FIN 4720 Marsico Investment Fund II (4 Credits)**

A securities analysis and portfolio management practicum in which students manage a University endowment gift donated by Tom and Cydney Marsico. Prerequisite: FIN 4710.

**FIN 4730 Marsico Investment Fund III (4 Credits)**

This course is an elective course that is the third in the series of classes involving the Graduate investment fund class: Marsico Investment Fund I & II. This course allows students to apply the investment, security analysis, and portfolio management tools and techniques that they have learned in their Finance classes. The students manage an actual portfolio, a portion of the University's endowment originally gifted by Tom and Cydney Marsico. The selection of students for this class is competitive. Students must agree to participate for 2 consecutive quarters, and they must be willing to address portfolio issues during the between-quarter periods if necessary. Because the course involves the application of tools and concepts learned in other classes, the best time to take the course is in the last year of a student's program. Prerequisites: FIN 4710 and FIN 4720.

**FIN 4740 Managerial Microeconomics (2 Credits)**

This course combines the standard tools of microeconomic analysis with a well-rounded appreciation of the important perspectives that form the business environment in the contemporary world. The goal is to provide students with the tools from microeconomics, game theory, and industrial organization that they need to make sound managerial decisions. The course uses case studies to develop practical insights into managing the firm's resources to achieve competitive advantage. The course is divided into two principle modules based on market structure: perfect competition and imperfect competition. Both modules cover optimal behavior and strategies.

**FIN 4750 Managerial Macroeconomics (2 Credits)**

This course covers the theory and practice of modern macroeconomics. It teaches students how private market forces and government policy decisions drive fluctuations in the global economy and affect the business environment. It explores issues related to inflation, interest rates, foreign exchange rate, business cycles, and monetary and fiscal policies. The course uses case studies to analyze real-life macroeconomic issues, and students are encouraged to investigate the potential and limitations of macroeconomic theory with real-world problems. The course is divided into two principle modules: the economy in the long run, and the economy in the short run. Both modules cover impacts of government policies on the business environment in a closed economy and an open economy.

**FIN 4760 Managerial Economics (4 Credits)**

This course presents the fundamental concepts of microeconomics and macroeconomics and approaches them from a managerial decision-making perspective. The first half of the course emphasizes applying microeconomic theory to decision-making to help achieve a firm's objective – increasing profit, market share, or growth. In contrast to traditional economics course, this course emphasizes practical implementation AND how economics affects business decision making. The second half of the course discusses macroeconomics and factors that affect the economy. The goal is to develop an understanding of macro-economic concepts such as GDP, inflation, and government policy such as Federal Reserve actions and government spending, to obtain a framework to model a firm's behavior according to an informed understanding of what the economy is doing. Armed with an understanding of the cycle of economic activity, one can formulate a firm understanding of policy alternatives by both the Federal Reserve and Congress.

**FIN 4800 An Organized Walk Down Wall Street (0-4 Credits)**

After four class sessions in Denver, participants will spend five days in New York visiting exchanges, brokerage firms, investment bankers, commercial banks, asset managers, and other institutions.

**FIN 4830 Econometrics for Finance (4 Credits)**

Econometrics for Finance is designed to teach applied statistical tools relevant to understanding financial and economic data. It is designed to cover essential tools for working with financial data, including return forecasting, volatility and econometrics of asset pricing, such as testing market models. The emphasis is on empirical techniques which are used in the analysis of financial markets and how they are applied to actual data. It teaches how to use and apply techniques using R, a free software that is used by many finance professionals. The course is intended to prepare students to possess the quantitative tools to evaluate and implement in the finance arena. Prerequisite: STAT 4610 and FIN 4500 (If no experience in R).

**FIN 4835 Executive Education - Finance for Non-Financial Managers (2 Credits)**

This Executive Education workshop introduces you to the essential finance skills any business professional needs to know. You will learn the language, tools and techniques to become a more intelligent user of financial reports. Through hands-on learning exercises, you will learn how to simplify, understand and apply data from financial reports and budgets. You will gain the confidence to ask better questions and make more informed financial decisions. \*This short-form workshop does not follow the traditional quarter schedule. Please check [daniels.du.edu/executive-education](http://daniels.du.edu/executive-education) for class dates and formats.

**FIN 4860 Derivatives (4 Credits)**

This course provides a theoretical foundation for the pricing of contingent claims and for designing risk-management strategies. It discusses more advanced material in financial derivatives and is intended for students who have a quantitative background and are interested in enhancing their knowledge of the way in which derivatives can be analyzed. This course covers option pricing models, hedging techniques, and trading strategies. It also includes portfolio insurance, value-at-risk measure, multistep binomial trees to value American options, interest rate options, and other exotic options. Prerequisite: FIN 4200.

**FIN 4870 Strategic Finance (4 Credits)**

Addresses theory, concepts, and techniques associated with asset management and creation of value from a strategic orientation. Links financial theory and practice to strategic and operational objectives of the firm, prepares student to incorporate risk and uncertainty into analytical decision-making process and to analyze divestiture, restructuring, and liquidation decisions. Prerequisite: FIN 4410.

**FIN 4875 Executive Education – Strategic Finance (2 Credits)**

Today's leading organizations require executives to use rigorous financial analysis in order to make strategic decisions that affect growth, profitability and competitive market advantage. Strategic Finance is a multidimensional Executive Education workshop that uses real simulations and an acquisition case study to map the connections between business strategy, finance and enterprise value creation. The goal of the course is to make you a more intelligent user of finance and strategy. It will enable you to ask better questions and to make better decisions. You will become a more sophisticated manager, particularly when focusing on the interplay and interdependence of strategy, finance & management. \*This short-form workshop does not follow the traditional quarter schedule. Please check [daniels.du.edu/executive-education](http://daniels.du.edu/executive-education) for class dates and formats.

**FIN 4885 Investment Banking and External Financing (4 Credits)**

This course is an advanced Corporate Finance course, focusing on the decisions by companies related to external sources of financing. There will be a mix of theory and practice, with outside speakers providing insight into the practice component. Topics will include business valuation, mergers and acquisitions, startup financing, angel investing and venture capital, bank loans, private equity, stock issuance and going private. Prerequisite: FIN 4410.

**FIN 4890 Fixed Income Analysis (4 Credits)**

Emphasizes valuation and management of fixed income securities in prevailing environment of complex and innovative financial arrangements. Study of the nature of evolving markets, both domestically and internationally. Prerequisite: FIN 4200.

**FIN 4980 Finance Internship (0-10 Credits)**

Daniels College of Business's graduate curriculum is designed to be experiential and build upon practical experience. To gain the full benefit of this curriculum, students are encouraged to expand their experiential learning beyond the short term experiences required in the classroom. Internships that allow students to apply newly learned skills and theories in the workplace are considered an integral to the curriculum and all students are strongly encouraged to seek such opportunities. Permission of instructor required. Hours and times arranged by student.

**FIN 4991 Independent Study (1-10 Credits)**

Individual study and report. Hours and times arranged by student.

**FIN 6305 Applied Quantitative Methods in Finance (4 Credits)**

"Applied Quantitative Methods in Finance" is a PhD-level seminar designed to immerse students in the techniques essential for quantitative research in Finance and other disciplines. This course offers a journey through the application of empirical methods and analytical frameworks using the Python programming language and key analytical packages. The examples and assignments cover topics including corporate governance, executive compensation, risk/return analysis, and the exploration of decentralized finance. Students will gain hands-on experience working with real-world data sets and get an introduction to the Finance literature. Structured around hands-on student research assignments, presentations and immersive sessions, the course covers a broad spectrum of quantitative methods including cross-sectional linear regression, two-stage least squares, forecasting and machine learning techniques such as variable selection. Each module is crafted to further the understanding of financial theories through empirical research and data analysis.