

FINANCE (FNCE)

FNCE 1001 - Financial Literacy for Business (1 Credit)

The five day workshop on financial literacy will provide students with the opportunity to build a basic financial literacy toolkit, including managing your money, mastering credit & debt, investing, and planning for the future. Students will also learn about business in Denver.

Grading Basis: Letter Grade

Typically Offered: Summer.

FNCE 1100 - Introduction to Financial Management (3 Credits)

Fundamental tools and techniques applicable to financial planning of businesses. Covers valuation of securities, risk-return relationship, capital budgeting, management of current assets and liabilities with extension to international areas.

Grading Basis: Letter Grade

Typically Offered: Fall, Spring.

FNCE 1200 - Introduction to Investing (3 Credits)

Fundamental tools and techniques applicable to financial planning of businesses. Covers valuation of securities, risk-return relationship, capital budgeting, management of current assets and liabilities with extension to international areas.

Grading Basis: Letter Grade

Typically Offered: Fall, Spring.

FNCE 1500 - Introduction to Investment Services (1 Credit)

This class provides students with a broad overview of career opportunities in finance, focusing on financial services and banks. We first introduce several career paths in finance, and then briefly introduce the origins of money and banking. We turn to an in-depth study of the financial services industry, including the services provided by companies and listing financial services products as well as who develop and regulates those services. We map the skills (technical and personal) that are required for an individual to succeed in the industry. The course will have a special focus in companies in Colorado and the Colorado Investment Service Coalition (CISC). We close the course with mapping key ethics in the financial services industry. The course will address the full range of financial services careers, including investment and commercial banking, insurance, pension plans, risk management, mutual funds, e-commerce, and personal and business planning.

Grading Basis: Letter Grade

FNCE 2939 - Internship (1-3 Credits)

Repeatable.

Grading Basis: Satisfactory/Unsatisfactory

Repeatable. Max Credits: 3.

FNCE 3000 - Principles of Finance (3 Credits)

This course provides an introduction to financial markets and institutions, financial statement analysis, interest rates and the time value of money, principles of security valuation, concepts of risk and return, and capital budgeting. Note: This course is required in the Business Core. A grade of 'C' or better must be earned when used as a prerequisite for FNCE courses.

Grading Basis: Letter Grade

Prereq: MATH 1070 or MATH 1060 or MATH 1110 or MATH 1080 or MATH 1130 or MATH 1401 AND ACCT 2200 AND DSCI/BANA 2010 or ECON 3811 all with a C- or higher AND ECON 2012 AND ECON 2022. Rest: Restricted to undergraduate students with 45 credit hours or more.

FNCE 3350 - Introduction to Personal Financial Planning (3 Credits)

This course is designed to give students the tools necessary to manage their own finances over their lifetime. Planning for retirement, insurance, investing, taxes and more is the focus of this course in personal financial management for individuals. The course covers the basics for making appropriate financial decisions.

Grading Basis: Letter Grade

Requires prerequisite course of FNCE 3000 (minimum grade C).

Restricted to undergraduate Business (BUSN) majors at a junior standing or higher.

FNCE 3450 - Introduction to Commercial Real Estate (3 Credits)

This course will provide a broad overview of the many service lines and asset classes within commercial real estate. Students will gain perspective into and hear from leaders within the various business functions that comprise the commercial real estate industry. We will also study how market cycles impact the utilization and valuation of commercial real estate. Students will also gain an understanding into the various types of, and the wide-ranging investment return criteria applied by, commercial real estate investors. This will include exploring the broad spectrum of investors from sole proprietors to global institutions and the return criteria they deploy, such as cash-flow and internal rate of return.

Grading Basis: Letter Grade

FNCE 3470 - Private Equity and Venture Capital (3 Credits)

The objective of this course is to provide students with an understanding of the nature of the private equity market, the principal participants in this market, and how they function. Topics covered will include: How private equity funds are raised, structured, and financed; how potential deals are assessed, processed and structured; valuation of private equity interests; investor/company interaction and strategies for value creation; and exit strategies.

Grading Basis: Letter Grade

Requires prerequisite course of FNCE 3000 (minimum grade C).

Restricted to undergraduate Business majors at junior standing or higher.

FNCE 3500 - Corporate Finance (3 Credits)

In this course students learn about the role of financial manager in raising capital, investing in value-added projects, and distributing the cash back to the shareholders. Financial managers must address agency problems, optimize the capital structure for the firm, and assess the appropriate cost of capital when issuing new securities in the capital market. Investment side of the course introduces students to representative Corporate Finance problems on Capital Budgeting, e.g. a machine replacement problem. Distribution policy helps students understand how firms give capital back to the shareholders.

Grading Basis: Letter Grade

Prereq: FNCE 3000 with a grade of C or higher Restriction: Restricted to undergraduate Business majors at a junior standing or higher

Typically Offered: Fall, Spring, Summer.

FNCE 3600 - Financial Markets and Institutions (3 Credits)

Focuses on the supply and demand for loanable funds, the process of money creation, the structure of interest rates, and the role of banks and the Federal Reserve in the financial system. Special attention is devoted to the impact of monetary and fiscal policies on interest rates, the flow of funds and economic activity; and the operation of financial markets and institution.

Grading Basis: Letter Grade

Prereq: FNCE 3000 with a grade of C or higher Restriction: Restricted to undergraduate Business majors at a junior standing or higher

Typically Offered: Fall, Spring.

FNCE 3700 - Investment and Portfolio Management (3 Credits)

In this course students learn about the different types of investment vehicles, including methods to estimate their value and analyze their risk. They will also be introduced to portfolio management, including the identification of objectives and constraints and the analysis and use of investment information. Topics include the functioning of security markets, asset allocation, security valuation, and portfolio analysis. A grade of 'C' or better must be earned to receive credit for the course, and to take subsequent courses for which it is a prerequisite. Note: FNCE 3700 and FNCE 3600 may be taken concurrently.

Grading Basis: Letter Grade

Prereq: FNCE 3000 with a grade of C or higher Restriction: Restricted to undergraduate Business majors at a junior standing or higher.

FNCE 3840 - Independent Study: FNCE (1-3 Credits)

Repeatable.

Grading Basis: Letter Grade

Repeatable. Max Credits: 3.

Restriction: Restricted to undergraduate Business majors with junior standing or higher

FNCE 3850 - Blockchain, Crypto Investing and Trading Strategy (3 Credits)

This class presents introduction to blockchain includes blockchain innovation tools, protocols and techniques and its application in the newly emerge cryptocurrency asset class. We then analyze the need and motives for the crypto, and how it disrupts the current and existing payment system. The final theme of the class focuses on the optimal cryptocurrency investment and presents robust trading strategy. Cross-listed with FNCE 6850.

Grading Basis: Letter Grade

Prereq: FNCE 3000 with a C or higher.

FNCE 3860 - Payments and Digital Banking (3 Credits)

The Payments and Digital Banking course offers an in-depth exploration of the rapidly evolving landscape of financial technology within the realm of payments and digital banking. Students will gain a comprehensive understanding of the various digital payment methods, mobile banking solutions, and emerging technologies shaping the financial services industry. The course delves into the intricacies of payment ecosystems, examining the role of blockchain, cryptocurrencies, and digital wallets. Additionally, students will explore regulatory frameworks, security considerations, and the impact of innovative technologies on traditional banking models. Through case studies, discussions, and hands-on projects, participants will develop practical insights into designing and managing digital banking solutions, preparing them for the dynamic and transformative nature of modern financial services. Cross-listed with FNCE 6860.

Grading Basis: Letter Grade

Prereq: FNCE 3000 with a grade of C or higher Restriction: Restricted to undergraduate Business majors at a junior standing or higher

FNCE 3870 - Introduction to AI and ML in FinTech (3 Credits)

This course provides students with a comprehensive understanding of the applications of Artificial Intelligence (AI) and Machine Learning (ML) in the rapidly evolving field of Financial Technology (FinTech). Students will explore the foundational concepts of AI and ML and examine how these technologies are reshaping various aspects of the financial industry. Topics include predictive analytics, algorithmic trading, risk management, fraud detection, and customer experience enhancement. Through practical examples and real-world case studies, students will gain hands-on experience in applying AI and ML techniques to FinTech challenges. The course aims to equip students with the knowledge and skills needed to navigate the intersection of AI, ML, and FinTech, preparing them for roles in this dynamic and innovative sector. Cross-listed with FNCE 6870.

Grading Basis: Letter Grade

Prereq: FNCE 3000 with a grade of C or higher Restriction: Restricted to undergraduate Business majors at a junior standing or higher

FNCE 3880 - Critical Software for FinTech (3 Credits)

This course provides an in-depth exploration of critical software tools essential for professionals in the field of Financial Technology (FinTech). Students will have the opportunity to choose and master three software applications from a curated list of six, gaining practical skills that are highly relevant in the FinTech industry. The course emphasizes hands-on experience, practical applications, and the integration of software tools in various FinTech domains. Cross-listed with FNCE 6880.

Grading Basis: Letter Grade

Prereq: FNCE 3000 with a grade of C or higher Restriction: Restricted to undergraduate Business majors at a junior standing or higher

FNCE 3890 - Quantum Python for FinTech (3 Credits)

This course introduces quantum computing and its applications in financial technology (FinTech). The first half of the course covers foundational quantum concepts, including qubits, superposition, entanglement, and quantum algorithms, with an emphasis on financial applications such as portfolio optimization, risk modeling, and algorithmic trading. The second half focuses on hands-on Python programming for financial data analysis, simulations, and quantum-inspired modeling. Students will gain both theoretical knowledge and practical coding skills, preparing them to apply quantum and classical computational techniques to real-world financial problems. Cross-listed with FNCE 6890

Grading Basis: Letter Grade

Prereq: FNCE 3000 with a grade of C or higher Restriction: Restricted to undergraduate Business majors at a junior standing or higher

FNCE 3939 - Internship (1-3 Credits)

Supervised experiences involving the application of concepts and skills in an employment situation. To enroll in an internship, students must work with the Experiential Learning Center on campus and have a 2.40 GPA or higher. Repeatable.

Grading Basis: Satisfactory/Unsatisfactory

Repeatable. Max Credits: 9.

Restriction: Restricted to undergraduate Business majors with junior standing or higher

FNCE 4370 - International Financial Management (3 Credits)

Financial management in the international environment. Topics include international capital movements; international operations as they affect the financial functions; foreign and international institutions; and the foreign exchange process. Also considers foreign exchange theory and risk management, financial requirements, problems, sources, and policies of firms doing business internationally. Cross-listed with INTB 4370.

Grading Basis: Letter Grade

Prereq: FNCE 3000 with a grade of C or higher Restriction: Restricted to undergraduate Business majors at a junior standing or higher

Typically Offered: Fall, Spring, Summer.

FNCE 4382 - Financial Derivatives (3 Credits)

This course introduces forward contracts, used in price risk management for millennia. We cover the properties of forward/futures contracts, structure of the markets and strategic implications for speculation and hedging. We price forwards from spot price, and introduce convenience yield. Options used for insurance purpose (think of your car insurance as a put option) is a more expensive way to manage risk; we cover option strategies and basic pricing. The course concludes with swaps, credit derivatives and structured products. Asset classes covered are equity, fixed income, currency, agriculture, energy (oil/gas and electricity) and metal/mining.

Grading Basis: Letter Grade

Prereq: FNCE 3500 and 3700 with a grade of C or higher Restriction: Restricted to undergraduate Business majors at a junior standing or higher

Typically Offered: Fall, Spring, Summer.

FNCE 4470 - Behavioral Finance (3 Credits)

Over the past several decades, the field of finance has developed a successful paradigm based on the notions that investors and managers were generally rational and the prices of securities were generally "efficient." In recent years, however, anecdotal evidence as well as theoretical and empirical research has shown this paradigm to be insufficient to describe various features of actual financial markets. In this course we examine how the insights of behavioral finance complements the traditional paradigm and sheds light on the behavior of asset prices, corporate finance, and various Wall Street institutions and practices.

Grading Basis: Letter Grade

Prereq: FNCE 3500 with a C or higher

FNCE 4480 - Introduction to Financial Modeling (3 Credits)

Develops and implements financial models for purposes of financial planning and decision making. This course seeks to increase students' knowledge and skill in the development of basic Excel-based financial planning models, including cash budgets, financial statements, and capital budgeting analysis. Knowledge of computer and spreadsheet software needed.

Grading Basis: Letter Grade

Prereq: FNCE 3000 and FNCE 3500. Restriction: Restricted to undergraduate Business majors at a junior standing or higher.

FNCE 4500 - Corporate Financial Decisions (3 Credits)

This is a required capstone course for the financial management emphasis. It uses the case method to develop the analytical and decision making skills of students. Students are required to apply theories and concepts learned in previous finance and accounting classes to real world scenarios. Topical coverage includes financial analysis, planning, control, working capital management, long-term investment and financing decisions and corporate valuation. A grade of 'C' or better must be earned to receive credit towards graduation.

Grading Basis: Letter Grade

Prereq: MATH 1060 or 1070 or 1110 or 1080 or 1130 or 1401 AND DSCI/BANA 2010 AND ACCT 2200 with a C- or higher; ECON 2012 AND 2022 with a D- or higher; FNCE 3000 AND 3500 AND 3700 with a C or higher. Restriction: undergraduate seniors or higher.

FNCE 4750 - Business Intelligence for Financial Modeling (3 Credits)

This course integrates financial concepts with Python programming to provide students with key business intelligence skills relevant to finance. Students will learn to code financial models, manipulate financial data, and apply basic machine learning techniques to forecast financial trends. The course focuses on four primary areas: (1) Python fundamentals for financial applications, including time value of money calculations and other financial functions, (2) data acquisition from financial sources to prepare data for analysis, (3) data visualization and analysis using Python libraries to uncover patterns and insights, and (4) machine learning models, such as K-Nearest Neighbors, Naive Bayes, and Support Vector Machines, for predictive modeling in finance. Through hands-on exercises and projects using real financial concepts and datasets, students will reinforce their learning. By the end of the course, students will have gained proficiency in fundamental Python coding for financial analysis and decision-making. Cross-listed with ISMG 4750

Grading Basis: Letter Grade

Prereq: ISMG 2050 with a grade of 'C-' or higher, FNCE 3000 and ISMG 3000 (ACCT 4054 may substitute for ISMG 3000) all with a grade of 'C-' or higher. Restriction: Restricted to undergraduate students at a junior standing or higher.

FNCE 4840 - Independent Study: FNCE (1-8 Credits)

Repeatable.

Grading Basis: Letter Grade

Repeatable. Max Credits: 8.

Restriction: Restricted to undergraduate Business majors with junior standing or higher

FNCE 4950 - Special Topics (3 Credits)

Research methods and results, special topics and professional development in finance. Prerequisites vary according to topic and instructor requirements. Repeatable.

Grading Basis: Letter Grade

Repeatable. Max Credits: 9.

Restriction: Restricted to undergraduate Business majors with junior standing or higher