Finance and Insurance (FINA)

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FINA 1209. Personal Finance. 4 Hours.
Emphasizes the development of individually focused financial information and a comprehensive financial plan designed to enable the individual to manage his or her financial affairs. Integrates personal goals—such as buying a home, retirement, investing, and insurance needs—to help assure that the financial plan incorporates the major decision stages an individual faces.

FINA 1990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

FINA 2201. Financial Management. 4 Hours.
Designed to develop the financial skills and logical thought processes necessary to understand and discuss financial policy decisions in a global economy. Specific objectives include developing an understanding of the time value of money; using financial statements in decision making; and understanding the nature of financial markets, the cost of capital, valuation of stocks and bonds, management of short-term assets, short-term and long-term financing, capital markets, and multinational financial management. Addresses the impact of legal, social, technological, and ethical considerations on efficient economic outcomes. Requires a financial calculator and provides an opportunity to develop computer spreadsheet skills.

FINA 2202. Financial Management in a Global Context. 4 Hours.
 Covers the financial skills and thought processes necessary to understand and discuss financial policy decisions in a global economy. Emphasizes return and risk management issues faced by financial managers as they operate internationally. Topics include the effects of currency translation and valuation; understanding the time value of money; translating, consolidating, and evaluating financial statements in decision making; determination of the cost of capital; valuing stocks and bonds available in different global markets; and managing short-term assets and liabilities and short-term financing. Addresses the impact of legal, social, technological, and ethical considerations faced by financial managers in companies that operate globally. Requires a financial calculator. Offers students an opportunity to develop computer spreadsheet skills.

FINA 2209. Financial Management. 4 Hours.
Does not count as credit for business majors. Counts as FINA 2201 for business minors only.

FINA 2710. Emerging Financial Markets. 4 Hours.
Presents essential theoretical background and practical knowledge regarding investments in emerging financial markets. Covers how emerging markets are developed and how securities are valued and traded. Explores the major risk factors associated with investing in these markets as long as the basic institutional policy issues affect emerging markets. Finally, offers a practical approach to investing in emerging financial markets (including financial securities selections, analysis, and portfolio diversification).

FINA 2720. Sustainability in the Business Environment. 4 Hours.
Examines a variety of environmental problems, including global warming, use and disposal of toxic substances, and depletion of natural resources such as water and petroleum. Many of these problems arise because these are resources that are available to all and so their overuse is an externality that is not included in manufacturing costs. Businesses have been involved in both identifying sustainability issues in their individual organizations and providing a variety of innovative solutions. Uses a combination of readings and case analyses to assesses how both government regulations—such as taxes, subsidies, building codes, prohibitions of use—and business solutions—including zero emissions, green design, producer take-back, life cycle assessment, and corporate environmental reporting—address these problems.

FINA 2990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

FINA 3301. Corporate Finance. 4 Hours.
Designed to develop the skills needed to make and implement financial policy decisions in a global economy. Specific objectives include developing an understanding of financial analysis; company valuation; capital markets; cost of capital; capital asset pricing and risk management; short- and long-term financial policies; working capital management; multinational financial management; and special topics including lease financing, debt refunding, mergers and acquisitions, and bankruptcy and restructuring. Offers opportunities to consider many broader issues including the relevance of globalization; the world economy; technological advances; and legal, social, and ethical issues related to the practice of corporate finance. Stresses written and oral communication skills and teamwork. Uses cases and spreadsheets extensively.

FINA 3303. Investments. 4 Hours.
Focuses on investment management as the study of risk and return of financial securities and real assets. Students design and assess models that evaluate investments while recognizing the constraints of the real world. Explores domestic and international financial markets and the securities traded therein. Discusses techniques for valuation of financial assets. Analyzes qualitative concepts such as market efficiency, intrinsic value, and risk. Provides the ability to build unique valuation models to suit the particular investment alternative that students wish to scrutinize. Also stresses portfolio construction, management, and protection, as well as performance assessment. During the semester, students have an opportunity to create and manage a stock portfolio.

FINA 3990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.
FINA 4219. Portfolio Management. 4 Hours.
Studies the characteristics and formation of optimal portfolios by investing risky assets and fixed incomes. The discussion of theories and models is associated with the application for portfolio decision making in practice. Offers students an opportunity to obtain the ability to establish appropriate client investment objectives, gather and assess information necessary for determining the investment style and the selection of the securities and, evaluate the performance of a portfolio. Portfolio management is a critical functionality that is provided by financial institutions such as investment banks, insurance companies, and funds. This full-semester course is designed to introduce industry-grade portfolio analysis, exploring all aspects of investment evaluation from the perspective of institutional and individual investors.

FINA 4220. Behavioral Finance. 4 Hours.
Designed to revisit neoclassical economic theory based on rational market participants, then introduce students to the theory and evidence regarding psychological heuristics and biases that are inconsistent with the underlying assumptions of these classical models. Behavioral biases can severely influence financial decision making in the investment and the corporate environments, and it is important for students to understand how and why these biases occur. The course material, born out of the fields of cognitive psychology and behavioral economics, is designed to help students understand their own biases in making personal financial decisions.

FINA 4310. Working Capital Management. 4 Hours.
Examines strategies and analytical approaches to managing current assets and current liabilities. Explores corporate cash management under changing money market conditions. Discusses the use of interest rate futures and working capital management in a multinational context. Provides a summary overview of entrepreneurial finance, with a focus on small businesses, corporate ventures, and intrapreneurship. Applies knowledge of corporate finance in the context of starting, acquiring, managing, and divesting a business or a business unit within a corporation. Topics include analyzing the financial needs of new ventures, exploring sources of financing, managing decline, determining valuation, and reviewing exit strategies.

FINA 4312. Issues in Corporate Governance. 4 Hours.
Examines the nature of conflicts over control of the corporation. Applies modern finance theory and practice to the issues raised and draws on seminal works in the finance and economics literature that influence the current debate in this area. Discusses legal and ethical considerations that are especially important in corporate-control issues. Uses cases involving well-known takeovers, as well as current hostile takeover battles, to illustrate the theories discussed.

FINA 4320. International Financial Management. 4 Hours.
Introduces international financial markets including balance of payments, history of the international monetary system, exchange-rate determination, foreign-exchange-exposure hedging strategies, and international capital markets. Examines how the financial strategies and policies of multinational corporations differ from domestic corporations and how financial management is utilized in an international setting to achieve corporate goals.

FINA 4370. Financial Modeling. 4 Hours.
Designed to develop students’ quantitative financial modeling skills and techniques using the Excel spreadsheet. Through learning how to use numerical examples and business cases, students study corporate valuation, weighted average cost of capital (WACC), pro forma statement modeling, portfolio models, and Monte Carlo simulation methods, etc. Seeks to cultivate students’ ability to make assumptions, deal with imperfect information, and real-world data issues. Offers students an opportunity to apply theoretical knowledge in advanced corporate finance, asset pricing, and option pricing in a real-world context. This course is highly quantitative in nature; while it does not derive complicated mathematical formulas, familiarity with concepts such as the capital asset pricing model (CAPM), WACC, portfolio theory, and pro forma financial statements is expected.

FINA 4380. Financial Data Analytics with Python. 4 Hours.
Designed to introduce students to Python and its use as a financial data analytics tool. Python has gradually become one of the most widely used open-source, cross-platform programming languages. Introduces the basics of programming in Python and key libraries (NumPy, Pandas, Matplotlib, etc.) used in data analytics. The second part of the course focuses on implementing various financial models in Python. Topics covered include but are not limited to single and multifactor portfolio models, portfolio theory and the efficient frontier, algorithmic trading, options and futures, value at risk, etc.

FINA 4390. Machine Learning in Finance. 4 Hours.
Seeks to train students to develop financial technology (fintech) solutions using machine learning and deep learning algorithms and to prepare them for rapid changes in the financial services world due to technological innovations. Offers students an opportunity to learn to design algorithms and develop stand-alone scalable machine learning and financial technology applications. Covers a broad range of technology platforms including Python, database (SQL), front-end, and API tools, all of which are used to create scalable fintech applications. Topics covered include a working front-end design, which provides instant predictive output or finance-related functionality to end users. Emphasizes self-learning skills after initial preparation, as most developers need these skills to keep up with the ever-increasing set of technology development tools.

FINA 4410. Valuation and Value Creation. 4 Hours.
Explores recent developments in financial management and financial analysis through the use of modern finance theory to make capital allocation decisions that lead to long-run value maximization for the corporation. Focuses on applications and financial model building. Examines risk analysis by building spreadsheet models for valuation and risk-analysis applications. Utilizes valuation analysis models to merge financial, corporate, and business strategies to measure and manage corporate value. Develops an understanding of the mechanics of the valuation process, along with an understanding of the drivers of value and development of strategies for value creation. Topics covered are relevant to value consultants, corporate managers, and securities analysts.
FINA 4412. Personal Financial Planning. 4 Hours.
Emphasizes the development of personal financial management knowledge by applying the techniques and perspectives of financial planning professionals. Builds upon and applies skills gained in FINA 2201 to personal finance decisions such as retirement planning, home mortgages, and overall risk management. Offers students an opportunity to develop their own financial plan and understand how that plan will change as they age and their life situation changes. Note that while this course is not designed to prepare students to take the Certified Financial Planner exam, many of the topics, such as retirement planning, investment and securities planning, and estate planning, are among those discussed.

FINA 4420. Mergers and Acquisitions. 4 Hours.
Offers a practical, planning-based approach to managing the mergers and acquisitions (M&A) process. Analyzes how M&As create or destroy value; commonly used takeover tactics and defenses; M&A valuation techniques; alternative deal structures; and the financial, strategic, legal, and regulatory aspects of M&As. The first section covers how and when to apply the appropriate tools and skills to successfully complete a transaction. The second section offers students an opportunity to apply what has been learned to solve real-world business problems. Discusses all major elements of the acquisition process in the context of a logical process.

FINA 4512. Financial Risk Management. 4 Hours.
Explores the concepts of financial futures, options on financial futures, and listed options markets as developed to help corporations and financial institutions manage financial risk. Covers financial derivatives and standard hedging techniques first, followed by a study of market risk and strategies in managing market risk.

FINA 4514. Investment Banking. 4 Hours.
Examines the investment banking business. Investment bankers are one of the most important conduits through which funds flow from savers to corporations needing to invest in plant and equipment. Offers an opportunity to examine the major functions of large investment banks in regard to their investment banking, market making, and asset management businesses; to determine the financing needs of domestic and international corporations, not-for-profit organizations, and government entities by using concepts learned in earlier courses; and to learn to link these financing needs with products that are available in the capital markets, usually through the investment banking houses.

FINA 4516. Real Estate Finance. 4 Hours.
Surveys the field of real estate including principles of real estate law, transactions brokerage, management, development, valuation, taxation, finance, and investment. Provides a framework of real estate finance and investment, in both theory and practice. Examines all aspects of real estate financing including the primary and secondary mortgage markets, real estate financial institutions, regulations, and mortgage-backed securities. Analyzes the return, risk, and various strategies in real estate investments with financial methods and techniques. Uses case discussions, spreadsheet analysis, and investment projects to make learning effective.

FINA 4524. Credit Analysis. 4 Hours.
Explores all aspects of credit evaluation from the perspective of banks and other institutions. Introduces industry-grade credit analysis. Credit analysis is used by all manner of banks and other institutions, such as insurance companies, hedge funds, private equity groups, and even elements of local, state, and federal governments, to evaluate clients and potential borrowers who need loans and other structured debt products.

FINA 4526. Core Topics in Alternative Investments. 4 Hours.
Covers alternative investments, including real assets such as real estate and real estate investment trusts, hedge funds, commodities, private equity, and structured products. This course is highly quantitative and focuses on methods for understanding risk, return, and benchmarking of these investments. Offers students an opportunity to obtain a deeper understanding of each of these asset types.

FINA 4602. Turnaround Management. 4 Hours.
Examines strategies for identifying companies likely to fail and selecting and implementing remedial actions. Topics include business turnarounds, troubled companies, workouts, bankruptcies, and liquidations, using case studies and readings. Students evaluate a turnaround plan.

FINA 4604. Fixed-Income Securities. 4 Hours.
Explores students to the theory, application, and evidence concerning highly sensitive interest rate products. Explores recent developments in pension fund management, asset/liability management, duration matching, "gap" management, and other important issues confronting domestic and international financial and corporate management. Offers students the opportunity to learn how to customize a risk management program.

FINA 4608. Advanced Financial Strategy. 4 Hours.
Covers strategic financial decision making in dynamic and technology-driven organizations operating in domestic and international settings. Through case studies, discussions with senior financial executives, and student projects, students gain insight into capital investing and financing decisions in the new economy. An analytical paradigm linking business strategy, financial management, and valuation is utilized to explore financial decision making throughout the life cycle of companies, intended to optimize shareholder value creation. Topics include fundamental financial analysis, capital budgeting under conditions of high risk and uncertainty, startup financing, creative financing, mega-mergers, risk management, and valuation.

FINA 4610. Entrepreneurial Finance, Innovation Valuation, and Private Equity. 4 Hours.
Covers qualitative and quantitative aspects of entrepreneurial finance, such as venture capital and angel financing. Also covers private equity (i.e., buyout/leveraged-buyout firms), but in less detail. Introduces valuation in entrepreneurial finance, including valuation of startups, using real options to value innovation-intensive firms, valuation in staged financing, etc. Casework emphasizes the practical aspects of qualitative and quantitative issues related to venture capital financing, entrepreneurship, and innovation from the perspective of the financier and the startup firm. Discusses issues related to the venture capital industry, such as the limited partnership structure, term-sheets and contracts, exit of portfolio firms, and international investments. Requires a working knowledge of Excel or other spreadsheet programs.

FINA 4970. Junior/Senior Honors Project 1. 4 Hours.
Focuses on in-depth project in which a student conducts research or produces a product related to the student's major field. Combined with Junior/Senior Project 2 or college-defined equivalent for 8 credit honors project. May be repeated without limit.

FINA 4983. Special Topics in Finance. 4 Hours.
Examines areas of current interest and special topics in finance. Employs a mix of lectures, cases, and projects. Topics depend on the instructor. May be repeated up to two times.

FINA 4990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.
FINA 4993. Independent Study. 1-4 Hours. Allows students who have received approval to undertake independent study in lieu of any course required in the various concentrations. Students present proposals to an Independent Studies Committee for evaluation and approval. Every proposal requires a detailed outline of the objectives and plan of study and must be accompanied by a supporting statement from the supervising faculty member under whose direction the study takes place. A copy of the final report prepared by the student is presented to the appropriate Independent Studies Committee. Further information about the Independent Studies Program can be obtained from concentration coordinators. May be repeated without limit.

FINA 6200. Value Creation through Financial Decision Making. 3 Hours. Highlights the role of financial management as a source of value creation in a competitive global environment characterized by rapid technological, personal, and market changes. Offers students an opportunity to develop tools and techniques of financial analysis and valuation to support financial decision making. Presents future managers with actual business problems to learn to apply the tools of financial analysis to strategic decisions faced by the firm, such as capital budgeting and capital structure.

FINA 6201. Financial Theory and Policy. 3 Hours. Covers the fundamentals of financial decision making. Introduces students to the basic framework of corporate finance. Topics include tools and applications of financial asset valuations, the risk-return tradeoff, modern portfolio theory, methods of calculating the risk of financial assets, tools and applications for analyzing a firm's capital investment decisions, capital structure and dividend policy issues, theory and evidence concerning corporate restructuring, such as mergers and hostile takeovers, and issues concerning international financial management and the legal, ethical, and regulatory environment of financial management.

FINA 6202. Analysis of Financial Institutions and Markets. 3 Hours. Introduces the domestic and international financial system and the institutions within it. Develops data and quantitative analysis tools utilized for economic and financial modeling and analysis. Emphasis is on regression analysis and its application, including how to build and interpret statistical models. Topics include the major types of financial institutions that operate within the global economy and the financial instruments employed by them; how exchange rates, interest rates, and security prices are determined and how they affect the global economy; and how governments and central banks impact economic and financial conditions.

FINA 6203. Investment Analysis. 3 Hours. Familiarizes students with domestic and international financial markets and the securities traded therein. Discusses a variety of techniques for valuation of financial assets and relies heavily on quantitative methods. Critically analyzes such qualitative concepts as market efficiency, intrinsic value, and risk. The contents of this course, descriptive, theoretical, and applied, should provide students with the ability to build unique valuation models to suit the particular investment alternative they wish to scrutinize. Also provides students with an understanding of how investment theory and investment practice relate.

FINA 6204. International Finance Management. 3 Hours. Develops specific concepts, policies, and techniques for the financial management of the multinational firm. Topics include operation of the foreign exchange markets, foreign exchange risk management, sources and instruments of international financing, foreign direct investment and the management of political risk, multinational capital budgeting, and financing control systems for the multinational firm.

FINA 6205. Financial Strategy. 3 Hours. Develops financial, analytical, and communication skills necessary to develop and implement a financial strategy consistent with firm value creation in a dynamic environment. Stresses the impact of ethical and legal considerations, global markets, and technological innovation on efficient economic outcomes. Emphasizes written and oral communication skills. Upon completion of this course, students should be able to identify and analyze a firm's strategic opportunities and propose a suitable financial strategy that is consistent with firm value creation.

FINA 6206. Finance Seminar. 3 Hours. Structures discussion of current topics in the finance literature. Students read and present the works of leading researchers. Topics are broad and may cover various areas of corporate finance, investments, and institutions. Students also complete an original project emphasizing current methodologies of analysis.

FINA 6207. Financial Modeling. 3 Hours. Introduces financial modeling applications in the fields of risk management, statistics applied to finance, investments, and portfolio management. Financial modeling is used for performing financial analysis facilitating business decision making in virtually any business. Excel is the most widely used electronic spreadsheet program in the world. Offers students an opportunity to develop strong Excel proficiency needed to effectively and efficiently understand and implement the quantitative aspects of financial topics covered in the various financial courses taught in the MBA and MSF programs and to learn how to use a variety of spreadsheet tools and techniques to enhance their overall analytical skill set.

FINA 6208. Financial Management for Value Creation. 4 Hours. Introduces basic concepts of financial management—the management of the flow of funds available to an organization. Uses practice-oriented education to help students develop knowledge, skills, critical thinking abilities, and behaviors consistent with the objective of creating value. Includes frameworks, principles, tools, techniques, and procedures to illustrate their application. Topics include financial analysis, forecasting and planning, working capital management, valuation, capital budgeting, cost of capital, dividend policy, mergers, sources and methods of financing, financial structure, financial markets, financial strategy, risk management, and the timing of financial policies in domestic and international settings. Discusses ethical, legal, regulatory, environmental, societal, cultural, diversity, technological, and demographic issues related to financial management as appropriate.

FINA 6209. Introduction to International Accounting and Finance. 3 Hours. Offers students an opportunity to obtain a graduate-level understanding of accounting principles and standards and resulting financial statements. Emphasizes problems caused from differences in accounting standards and tax codes. Traces the impact of exchange-rate changes on the reporting of profits and owner's equity.

FINA 6211. Financial Risk Management. 3 Hours. Provides an overview of all of the hedging markets and hedging instruments. Explores specific hedging use of options, forwards, futures, swaps, and options on futures. Focuses on advanced financial risk management of interest rates, currency rates, equity returns, and fixed income returns. Students use readings and case problems to study when and how to use hedging instruments to alter a portfolio's risk exposure.
FINA 6212. Fixed Income Securities and Risk. 3 Hours.
Exposes students to theory, applications, and evidence concerning highly sensitive interest rate products. Discusses recent developments in pension fund management, asset/liability management, duration matching, “gap” management, concurrent interest rate and exchange rate management, and other important issues now confronting domestic and international financial and corporate management. Studies how to customize a risk management program.

FINA 6213. Investment Banking. 3 Hours.
Discusses policy, strategy, and administration of financial services firms. Topics include issuance of securities, the service function within financial services, pricing a negotiated issue of common stock or competitive bid issue, and meeting capital requirements of a securities firm.

FINA 6214. Mergers, Acquisitions, and Private Equity. 3 Hours.
Explores the environments that have recently given rise to a large number of corporate mergers and the business factors underlying these corporate combinations. Examines the financial, managerial, accounting, and legal factors affecting mergers. Focuses on three aspects of the merger and acquisition process: the strategic decision to acquire, the valuation decision of how much to pay, and the financing decision on how to fund the acquisition.

FINA 6215. Business Turnarounds. 3 Hours.
Concentrates on the diagnosis, prescription, and implementation of actions pertinent to business turnarounds, troubled companies, workouts, bankruptcies, and liquidations. Case studies and readings guide the student through the maze of financial, ethical, legal, general business, and strategic aspects of turnarounds, culminating in the student evaluating and developing a turnaround plan.

FINA 6216. Valuation and Value Creation. 3 Hours.
Focuses on cash-flow oriented models of the valuation of the firm. Topics include enterprise value, free cash flow, economic value added, and risk/reward analysis. Explores recent developments in financial management and financial analysis through the use of modern finance theory to make capital allocation decisions that lead to long-run value maximization for the corporation. Focuses on applications and financial model building, risk analysis for valuation applications, and business strategies to measure and manage corporate value and value creation. Topics are relevant to value consultants, corporate managers, and securities analysts.

FINA 6217. Real Estate Finance and Investment. 3 Hours.
Provides students with a comprehensive understanding of real estate finance. Emphasizes factors affecting real estate investment. Topics include valuation (appraisal), market analysis, development, taxation, ownership types, short-term financing, mortgage markets, and investment strategies. Designed for students interested in a general overview of real estate finance, as well as those intending to pursue a career in the real estate field.

FINA 6219. Portfolio Management. 3 Hours.
Develops portfolio construction, revision, and performance measurement. Highlights portfolio construction in an efficient capital market. Topics include risk-return analysis, the effects of diversification on risk reduction, and the costs of inflation, taxes, and transaction costs on fixed income and equity security portfolios. Examines financial models of capital asset pricing as the basis for the analysis of portfolios from the institutional investor’s viewpoint.

FINA 6220. Healthcare Finance. 3 Hours.
Implements financial management and economic principles to analyze real-world healthcare issues. Emphasizes and encourages problem solving and creative thinking through the use of texts, cases, and models of the healthcare industry. Students are exposed to financial, managerial, and risk management strategies unique to the healthcare industry.

FINA 6225. Entrepreneurial Finance for High Tech Companies. 3 Hours.
Provides an overview of entrepreneurial finance with a focus on high-technology companies. Specific topics covered include analyzing the financial needs of high-technology ventures, including working capital management, risk analysis, capital budgeting, sources of financing, valuation; and exit strategies, including licensing, joint ventures, mergers and acquisitions, and initial public offerings (IPOs). Uses a combination of text material, books, and cases.

FINA 6231. Disrupting the Finance and Insurance Service Industries. 3 Hours.
Offers a summary overview of fintech and how it is disrupting the financial services and insurance industries. Discusses key business, regulatory, and technical elements including, but not limited to, blockchain technologies, bitcoin, crowdsourcing, payment processing, changes in investment management, changes in commercial banking, and changes in insurance. Considers evolutionary changes taking place among incumbents and entrepreneurial startups in developed as well as emerging economies. Includes research articles, business cases, and guest speakers from the local fintech community.

FINA 6260. Entrepreneurial Finance and Venture Capital. 3 Hours.
Covers qualitative and quantitative aspects of entrepreneurial finance, such as venture capital and angel financing. Introduces students to valuation aspects in entrepreneurial finance, including valuation of startups, using real options to value innovation-intensive firms, and valuation in staged financing. Emphasizes the practical aspects of qualitative and quantitative issues related to venture capital financing, entrepreneurship, and innovation from the perspective of the financier and the startup firm. Also covers many issues related to the venture capital industry, such as the limited partnership structure of the venture capital/private equity industry, venture capital term sheets and contracts, exit of portfolio firms, and international investments. May be repeated without limit.

FINA 6284. Financing Innovation and Growth. 3 Hours.
Offers an immersion in corporate finance with a specific focus on the financing of innovation and growth at firms. Topics include analyzing and applying finance from the perspective of intrapreneurship as well as entrepreneurship.

FINA 6292. Advanced Topics in Finance. 3 Hours.
Examines current, specialized, and advanced topics in the areas of corporate finance, investments, risk management, valuation, private equity, venture capital, and other areas as appropriate. Course content, pedagogy, and prerequisites vary by topic and instructor.

FINA 6309. Foundations of Accounting and Finance. 3,4 Hours.
Explores key principles of accounting, as presented in the principal financial statements. Using those principles, explores a number of accounting practices and issues. Develops tools of financial analysis and financial planning and applies the information gained to business decision making. Utilizing the principle of time value of money to compare inflows and outflows of funds occurring at different times, develops basic decision tools for managers to make sound financial choices and to understand the context in which they are made. At the end of the course, the successful student should have a sound basic understanding of accounting and financial matters and the ability to understand business decisions in context and to evaluate the choices that management faces in the normal course of business development.
FINA 6318. Financial Management. 2 Hours.
Introduces time value of money calculations and applications. Building upon a basis in accounting, offers students an opportunity to learn how to extract relevant information from the accounting statements for use in financial calculations and ratio analysis. Also examines capital planning, including determining relevant cash flows, calculating decision measures, and making the correct decisions.

FINA 6320. Advanced Financial Management. 3 Hours.
Builds upon FINA 6318. Focuses on capital allocation and both equity and fixed-income markets. Covers the fundamentals of stock and bond valuation, as well as a brief review of macroeconomic concepts including the role of the Federal Reserve, growth, and inflation. Culminates with coverage of firm capital structure and the weighted average cost of capital (WACC).

FINA 6331. Corporate Finance. 3 Hours.
Introduces the basic framework of corporate finance and financial decision making. Topics include capital budgeting; capital investment decisions; complex valuations; security issues; dividend policy; static and dynamic capital structure; real option analysis; restructuring; bankruptcy; corporate control and governance; and the legal, ethical, and regulatory environment of financial management.

Introduces the essential fundamental mathematics needed for the study of modern finance: probability, stochastic processes, statistics, and regression analysis. Also focuses on theory and empirical evidence useful for investment decisions. Topics include financial risk factors, financial models, financial markets and equilibrium models of security prices, market efficiency, and the empirical behavior of security prices.

FINA 6333. Data Analytics in Finance. 3 Hours.
Introduces Python and its use as a financial data analytics tool. Python has become one of the most widely used open-source, cross-platform programming languages. Covers the basics of programming in Python and key libraries (NumPy, Pandas, Matplotlib, etc.) used in data analytics, then focuses on implementing various financial models in Python. Topics include single and multifactor portfolio models, portfolio theory and the efficient frontier, algorithmic trading, options and futures, and value at risk.

FINA 6334. Empirical Methods in Finance. 3 Hours.
Examines statistical methods used to analyze financial data and test financial theories. Offers students an opportunity to learn how to access various sources of financial data, design empirical tests, and apply basic programming skills to analyze the data and arrive at conclusions. Specific topics include regression analysis, time-series analysis, event study methodology, panel data analysis, and limited dependent variable models.

FINA 6335. Derivatives and Risk Analysis. 3 Hours.
Introduces derivative assets, financial engineering, and risk management. Explores specific hedging use of options, forwards, and futures. Focuses on the determinants of forwards, futures, options and swaps, and various exotic derivatives pricing using computer-based numerical methods in a Monte Carlo setting and in closed form using elements of stochastic calculus. Also explores risk-management strategies using positions in derivative securities, static hedging, and dynamic hedging in continuous time.

FINA 6336. Derivatives and Fixed-Income Securities. 3 Hours.
Exposes students to theory, applications, and evidence concerning highly sensitive interest-rate products. Designed for students seeking to develop understanding of fixed-income valuation and hedging methods and familiarity with major markets and instruments. Emphasizes tools for quantifying, edging, and speculations. Topics include duration; convexity; approaches to modeling the yield curve; interest-rate forward; futures, swaps, and options; credit risk and credit derivative; mortgages; and securitization.

FINA 6337. Computational Methods in Finance. 3 Hours.
Studies various computational methods in finance. Analyzes market data and build trading strategies. Uses interpolation, solver, and optimization methods to calibrate discount curve and volatility surfaces to market prices. Analyzes market data and applies dimension-reduction techniques such as principal component analysis (PCA). Applies time-series analysis and PCA to implement and back test trading strategies.

FINA 6338. Alternative Investments. 3 Hours.
Emphasizes assets and portfolios that fall into the category of alternative investments, which includes nontraditional assets—such as structured products and other types of derivatives—and managed portfolios—such as private equity, venture capital, and hedge funds. Offers students an opportunity to obtain a fundamental understanding of the securities and products that are traded in this space. Focuses on in-depth analyses of case studies, outside speakers, focused discussions, quantitative analyses, and current developments in the industry.

FINA 6360. Fund Management for Analysts. 1 Hour.
Introduces a variety of operating documents typical to an active mutual fund. Offers students an opportunity to apply lessons from investment and portfolio management classes by presenting investment recommendations to a panel and communicating with peers in a thoughtful and forceful manner. Investment decisions are made based on student analysis and recommendations that include knowledge of macroeconomic expectations, corporate financing issues, debt-repayment concerns, and employee and technological changes. May be repeated up to three times.

FINA 6361. Fund Management for Managers. 1 Hour.
Builds on FINA 6360. Designed to provide students further analytical knowledge, including exposure to and opportunity to perform managerial tasks related to the management and operation of mutual funds. Included in these tasks are reconsideration of the fund's investment policy statement and asset allocation plan as well as preparation of accounting statements, dealing with compliance issues, addressing ethical concerns, measuring and managing risk, and performing marketing and fund-raising activities. May be repeated up to three times.

FINA 6962. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

FINA 7976. Directed Study. 1-4 Hours.
Offers independent work under the direction of members of the department on chosen topics. May be repeated without limit.