FINANCE (FNCE)

FNCE 100 Corporate Finance
This course provides an introduction to the theory, the methods, and the concerns of corporate finance. The concepts developed in FNCE 100 form the foundation for all elective finance courses. The main topics include: 1) the time value of money and capital budgeting techniques; 2) uncertainty and the trade-off between risk and return; 3) security market efficiency; 4) optimal capital structure, and 5) dividend policy decisions. ACCT 101 + STAT 101 may be taken concurrently. Honors sections require MATH 114 as a prerequisite.
Taught by: Changes by semester
One-term course offered either term
Also Offered As: FNCE 611
Prerequisite: (ECON 001 AND ECON 002) OR ECON 010 AND (MATH 104 OR MATH 110)
Activity: Lecture
1.0 Course Unit

FNCE 101 Monetary Economics and the Global Economy
This is an intermediate-level course in macroeconomics and the global economy, including topics in monetary and international economics. The goal is to provide a unified framework for understanding macroeconomic events and policy, which govern the global economic environment of business. The course analyzes the determinants and behavior of employment, production, demand and profits; inflation, interest rates, asset prices, and wages; exchange rates and international flows of goods and assets; including the interaction of the real economy with monetary policy and the financial system. The analysis is applied to current events, both in the US and abroad. Students cannot receive credit for taking both FNCE 101 and ECON 102. Wharton students are required to take FNCE 101. Honors sections require MATH 114 as a prerequisite.
Taught by: Changes by semester
One-term course offered either term
Also Offered As: FNCE 613
Prerequisite: (ECON 001 AND ECON 002) OR ECON 010 AND (MATH 104 OR MATH 110)
Activity: Lecture
1.0 Course Unit

FNCE 202 Consumer Financial Decision Making
Research shows that many individuals are profoundly underinformed about important financial facts and financial products, which frequently lead them to make mistakes and lose money. Moreover, consumer finance comprises an enormous sector of the economy, including products like credit cards, student loans, mortgages, retail banking, insurance, and a wide variety of retirement savings vehicles and investment alternatives. Additionally, recent breakthroughs in the FinTech arena are integrating innovative approaches to help consumers. Though virtually all people use these products, many find financial decisions to be confusing and complex, rendering them susceptible to fraud and deception. As a result, government regulation plays a major role in these markets. This course intended for Penn undergraduates considers economic models of household decisions and examines evidence on how consumers are managing (and mismanaging) their finances. Although academic research has historically placed more attention on corporate finance, household finance is receiving a brighter spotlight now-- partly due to its role in the recent financial crisis. Thus the course is geared toward those seeking to take charge of their own financial futures, anyone interested in policy debates over consumer financial decision making, and future FinTech entrepreneurs.
Taught by: Olivia Mitchell/Nicholas Roussanov
Course usually offered in fall term
Also Offered As: BEPP 202
Activity: Lecture
1.0 Course Unit

FNCE 203 Advanced Corporate Finance
This course discusses the theory and empirical evidence related to the various investment and financing policies of the firm and attempts to improve decision-making ability in these areas. This course covers aspects of financial management not covered in FNCE 100, including mergers and acquisitions, corporate reorganizations, financial planning and working capital management. It also offers a more rigorous coverage of topics discussed in FNCE 100, such as investment under uncertainty, cost of capital, capital structure, pricing of selected financial instruments and dividend policy.
Taught by: Changes by semester
One-term course offered either term
Also Offered As: FNCE 703
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 205 Investment Management
This course studies the concepts and evidence relevant to the management of investment portfolios. Topics include diversification, asset allocation, portfolio optimization, factor models, the relation between risk and return, trading, passive (e.g., index-fund) and active (e.g., hedge-fund, long-short) strategies, mutual funds, performance evaluation, long-horizon investing and simulation. The course deals very little with individual security valuation and discretionary investing (i.e., "equity research" or "stock picking"). In addition to course prerequisites, STAT 102 may be taken concurrently.
Taught by: Changes by semester
One-term course offered either term
Also Offered As: FNCE 705
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

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FNCE 207 Valuation
The focus of this course is on the valuation of companies. The course covers current conceptual and theoretical valuation frameworks and translates those frameworks into practical approaches for valuing companies. The relevant accounting topics and the appropriate finance theory are integrated to show how to implement the valuation frameworks discussed on a step-by-step basis. The course teaches how to develop the required information for valuing companies from financial statements and other information sources in a real-world setting. Topics covered in depth include discounted cash flow techniques and price multiples. In addition, the course covers other valuation techniques such as leveraged buyout analysis.
Taught by: Changes by semester
One-term course offered either term
Also Offered As: FNCE 707
Prerequisite: FNCE 100 AND ACCT 101 AND STAT 101
Activity: Lecture
1.0 Course Unit

FNCE 209 Real Estate Investment: Analysis and Financing
This course provides an introduction to real estate with a focus on investment and financing issues. Project evaluation, financing strategies, investment decision making and real estate capital markets are covered. No prior knowledge of the industry is required, but students are expected to rapidly acquire a working knowledge of real estate markets. Classes are conducted in a standard lecture format with discussion required. The course contains cases that help students evaluate the impact of more complex financing and capital markets tools used in real estate. There are case studies and two midterms, (depending on instructor).
Taught by: Calder-Wang, Ferreira, Handbury, Harari, Keys, Sinai, Wong
One-term course offered either term
Also Offered As: FNCE 721, REAL 209, REAL 721
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 217 Financial Derivatives
(Formerly FNCE 206) This course covers one of the most exciting and fundamental areas in finance. Financial derivatives serve as building blocks to understand broad classes of financial problems, such as complex asset portfolios, strategic corporate decisions, and stages in venture capital investing. The main objective of this course is build intuition and skills on (1) pricing and hedging of derivative securities, and (2) using them for investment and risk management. In terms of methodologies, we apply the non-arbitrage principle and the law of one price to dynamic models through three different approaches: the binomial tree model, the Black-Scholes-Merton option pricing model, and the simulation-based risk neutral pricing approach. The course covers a wide range of applications, including the use of derivatives in asset management, the valuation of corporate securities such as stocks and corporate bonds with embedded options, interest rate and credit derivatives, as well as crude oil derivatives. We emphasize practical considerations of implementing strategies using derivatives as tools, especially when no-arbitrage conditions do not hold. STAT 102 may be taken concurrently.
Taught by: Changes by semester
One-term course offered either term
Also Offered As: FNCE 717
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 219 International Financial Markets and Cryptocurrencies
Major topics include foreign exchange rates, international money markets, currency and interest rate derivatives, international stock and bond portfolios, and cryptocurrencies. Students learn about the features of financial instruments and the motivations of market participants. The class focuses on risk management, investing, and arbitrage in these markets. In addition to course prerequisites, FNCE 101 is recommended but not required.
Taught by: Urban Jermann
One-term course offered either term
Also Offered As: FNCE 719
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 225 Fixed Income Securities
(Formerly FNCE 235) This course covers fixed income securities (including fixed income derivatives) and provides an introduction to the markets in which they are traded, as well as to the tools that are used to value these securities and to assess and manage their risk. Quantitative models play a key role in the valuation and risk management of these securities. As a result, although every effort will be made to introduce the various pricing models and techniques as intuitively as possible and the technical requirements are limited to basic calculus and statistics, the class is by its nature quantitative and will require a steady amount of work. In addition, some computer proficiency will be required for the assignments, although familiarity with a spreadsheet program (such as Microsoft Excel) will suffice. In addition to course prerequisites, FNCE 101 is recommended.
Taught by: Changes by Semester
One-term course offered either term
Also Offered As: FNCE 725
Prerequisite: FNCE 100 AND STAT 101
Activity: Lecture
1.0 Course Unit

FNCE 230 Urban Fiscal Policy
This course will examine the provision of public services for firms and people through cities. Why cities exist, when fiscal policy fails, investments in infrastructure, realities of local governments such as inequality, crime, corruption, high cost of living, congestion, and unfunded pensions and debt, will be covered. We will pay special attention to recent topics, such as partnerships with the private sector, enterprise zones, the role of technology, environmental challenges, and real estate policies that promote housing affordability, such as rent control and inclusionary zoning.
Taught by: Fernando Ferreira
Course usually offered in spring term
Also Offered As: BEPP 230, REAL 230
Activity: Lecture
1.0 Course Unit
Finance (FNCE)

FNCE 231 Global Valuation and Risk Analysis
(Formerly FNCE 208/International Corporate Finance) This course analyzes the financial management problems that result from operating in global environments. Key topics include managing currency risk through hedging and financing, calculating the cost of capital for foreign operations, assessing sovereign risks, capital budgeting from a project and parent perspective, and international taxation and financing, measuring exchange rate exposure, calculating the cost of capital for foreign operations, assessment of sovereign risks, capital budgeting from a project and parent perspective, and international taxation.

Taught by: Karen Lewis
Course usually offered in spring term
Also Offered As: FNCE 731
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 232 International Banking
(Formerly FNCE 220) This course focuses on international financial institutions, especially the activities of global, systematically important banks. We will examine how current and historical events are reshaping the industry and highlight the basic analytics of managing a bank's exposure to liquidity, credit, market and reputational risk. Most classes will begin with discussion of a current event related to course topics. Three team projects will be assigned that will give you deeper exposure to analytic techniques related to the course. Throughout the semester, we will discuss public policy issues facing the international financial system. In addition to course prerequisites, FNCE 101 is recommended.

Taught by: Professor Richard Herring
Course usually offered in spring term
Also Offered As: FNCE 732
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 237 Data Science for Finance
This course will introduce students to data science for financial applications using the Python programming language and its ecosystem of packages (e.g., Dask, Matplotlib, Numpy, Numba, Pandas, SciPy, Scikit-Learn, StatsModels). To do so, students will investigate a variety of empirical questions from different areas within finance including: FinTech, investment management, corporate finance, corporate governance, venture capital, private equity, and entrepreneurial finance. The course will highlight how big data and data analytics shape the way finance is practiced. Some programming experience is helpful though knowledge of Python is not assumed.

Taught by: Michael Roberts
Course usually offered in fall term
Also Offered As: FNCE 737
Prerequisite: FNCE 100 AND STAT 102
Activity: Lecture
1.0 Course Unit

FNCE 238 Capital Markets
The objective of this course is to give you a broad understanding of the framework and evolution of U.S. capital markets, the instruments that are traded, the mechanisms that facilitate their trading and issuance, and the motivations of issuers and investors across different asset classes. The course will highlight the problems that capital market participants are seeking to solve, which you can use in your post-Wharton careers to evaluate future market innovations. We will consider design, issuance, and pricing of financial instruments, the arbitrage strategies which keep their prices in-line with one another, and the associated economic and financial stability issues. We will draw from events in the aftermath of the recent financial crisis, which illustrate financing innovations and associated risks, as well as policy responses that can change the nature of these markets. In addition to course prerequisites, FNCE 101 is recommended.

Taught by: Changes by semester
One-term course offered either term
Also Offered As: FNCE 738
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 240 Central Banks, Macroeconomic Policy and Financial Markets
(Formerly FNCE 393) Understanding and predicting central banking decision making and behavior is crucial for all market participants from asset managers and traders to private consumers. This course aims to provide the methods and knowledge on how central banks and governments think and implement policies to reach the goals of price and financial stability as well as support of growth and employment. The core of the course connects between the legal and actual goals that central banks follow and the related economic analysis on which these goals and policies are set. We explain the economic rationale for the policy prescriptions to reach the goals and how these policies are actually implemented by the Federal Reserve Bank (Fed) in the US, the European Central Bank (ECB), Bank of Israel (BOI) and some remarks on other countries. We use data, current events of the 2007-2018 period as the basis for discussion and assignments. All of these are aimed understanding how and why the Fed, the ECB and the BOI set their policies. For each we shall simulate in class current decisions based on assignment related to past policies and the theory presented in class.

Taught by: Zvi Eckstein and Joao Gomes
Course usually offered in fall term
Also Offered As: FNCE 740
Prerequisite: FNCE 100 AND (FNCE 101 OR ECON 102) AND STAT 102
Activity: Lecture
1.0 Course Unit

FNCE 245 Corporate Finance
This course focuses on the current theoretical and empirical research in corporate finance. We seek to establish the main themes and methods in the field of corporate finance, and to further develop the ability of students to apply that research to practical problems in corporate finance. The course is divided into two main parts. The first part is devoted to investment decisions, and will concentrate on the applications of capital budgeting techniques. We will focus on the use of capital budgeting techniques to assess alternative projects and to evaluate the role of the discount rate in measuring project risk. The second part of the course concentrates on the divestment decisions of firms. We will examine the motivations for and determinants of divestitures. We will also examine how companies divest their investments and the valuation of the divestitures.

Taught by: Changes by semester
One-term course offered either term
Also Offered As: FNCE 715
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 250 Venture Capital and the Finance of Innovation
This course covers the finance of technological innovation, with a focus on the valuation tools useful in the venture capital industry. These tools include the "venture capital method," comparables analysis, discounted cash flow analysis, contingent-claims analysis. The primary audience for this course is finance majors interested in careers in venture capital or in R&D-intensive companies in health care or information technology.

Taught by: Sylvain Catherine
One-term course offered either term
Also Offered As: FNCE 750
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit
FNCE 251 The Finance of Buyouts and Acquisitions
The course focuses on financial tools, techniques, and best practices used in buyouts (financial buyers) and acquisitions (strategic buyers). While it will touch upon various strategic, organizational, and general management issues, the main lens for studying these transactions will be a financial one. It will explore how different buyers approach the process of finding, evaluating, and analyzing opportunities in the corporate-control market; how they structure deals and how deal structure affects both value creation and value division; how they add value after transaction completion; and how they realize their ultimate objectives (such as enhanced market position or a profitable exit). The course is divided into two broad modules. The first module covers mergers and acquisitions, and the second one studies buyouts by private equity partnerships. FNCE 203 or FNCE 207 are recommended.
Taught by: Changes by semester
One-term course offered either term
Also Offered As: FNCE 751
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 253 Distressed Investing and Value Creation
(Formerly FNCE 341) This course familiarizes students with financial, strategic and legal issues associated with the restructuring of financially distressed firms and investment in distressed securities. The objective is to give students the concepts and tools necessary to assess the often-complex situation facing a firm in financial distress. The course covers the various options available for distressed firms, such as out-of-court workouts, exchange offers, prepackaged and pre-negotiated bankruptcies, distressed asset sales, 363 auctions, and Chapter 11 reorganization. We consider distressed debt as an asset class, develop techniques for investing in distressed securities and assess investment opportunities using the concepts of value investing. Students will sharpen their conceptual knowledge of finance and valuation in order to properly estimate the value of a distressed firm, and its securities. We will also address the importance of value creation and how to manage for value creation to either resolve distress or avoid it in the first place.
FNCE 203 or FNCE 207 are recommended.
Taught by: Kevin Kaiser
Course usually offered in fall term
Also Offered As: FNCE 753
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 254 Impact Investing
This course explores Impact Investing, a discipline that seeks to generate social benefits as well as financial returns. From tiny beginnings, the Impact Investment space has expanded and now commands significant attention from policymakers, wealthy and public-spirited individuals, academia and, not least, the world’s largest asset managers and philanthropic foundations. Evangelists believe it may be the key to freeing the world from poverty. Skeptics think it will remain confined to the boutique. Regardless, Impact Investing is becoming a distinct career specialization for finance professionals despite the diverse skillset each must have and the uncertainty of the new field’s growth. In addition to prerequisites, FNCE 205 is recommended but not required.
Taught by: Christopher Geczy
Course usually offered in spring term
Also Offered As: FNCE 754
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 256 Energy Finance
The objective of this course is to provide students with detailed knowledge of corporate structures, valuation methods, project finance, risk management practices, corporate governance issues, and geopolitical risks in the energy industry. In general, this course seeks to provide students with an overall context for understanding energy issues and risks, and how these might affect financing and investment decisions for both providers of energy and end-users of energy. FNCE 203 or FNCE 207 are recommended but not required.
Taught by: Erik Gilje
Course usually offered in spring term
Also Offered As: FNCE 756
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

FNCE 257 Foundations of Asset Pricing
This course will cover methods and topics that form the foundations of modern asset pricing. These include: investment decisions under uncertainty, mean-variance theory, capital market equilibrium, arbitrage pricing theory, state prices, dynamic programming, and risk-neutral valuation as applied to option prices and fixed-income securities. Upon completion of this course, students should acquire a clear understanding of the major principles concerning individuals’ portfolio decisions under uncertainty and the valuations of financial securities. In addition to the prerequisites one of the following courses is recommended FNCE 205; BEPP 250; MATH 360; STAT 433
Taught by: Jessica Wachter
Course usually offered in spring term
Also Offered As: FNCE 757
Prerequisite: FNCE 100 AND (MATH 114 OR MATH 312) AND STAT 430
Activity: Lecture
1.0 Course Unit

FNCE 280 FinTech
(Formerly FNCE 385) The course exposes students to this fast-growing and exciting intersection between finance (Fin) and technology (Tech) while emphasizing the role data and analytics play. The course is structured around three main FinTech areas: (i) Lending/Banking services, (ii) Clearing (iii) Trading. It provides specific coverage and examples of developments from (1) market-place lending, (2) blockchain and distributed ledgers, (3) quantitative trading and its use of non-standard inputs. In each of these areas, we start by analyzing the marketplace, the incumbents, and then proceed to analyze the impact of the most relevant technologies have on the business. The course is built around data/code examples, cases, guest lectures, and group projects. Student are thus expected to work in teams and demonstrate a high level of independent learning and initiative.
Taught by: Shimon Kogan
Course usually offered in spring term
Also Offered As: FNCE 780
Prerequisite: FNCE 100
Activity: Lecture
0.5 Course Units
**FNCE 283 Strategic Equity Finance**
This course discusses actual situations where companies need to make strategic decisions on raising equity capital. We will address different phases of a company's life cycle. Through these cases, from the decision-makers perspective, we will explore the different paths that can be taken and consider issues This half-semester course combines lectures and cases, and will go through actual situation where companies need to make strategic decisions on raising equity capital. We will address different phases of a company's life cycle. Through these cases, from the decision-makers perspective, we will explore the different paths that can be taken and consider issues such as investor activism, governance and regulatory and valuation impact. FNCE 238 is recommended but not required.
Taught by: David Musto and David Erickson
Course usually offered in spring term
Also Offered As: FNCE 783
Prerequisite: FNCE 100
Activity: Lecture
0.5 Course Units

**FNCE 291 Corporate Restructuring**
This course explores the highly active and sophisticated deal making environment that is the hallmark of modern corporate restructuring. The course is primarily comprised of two key components. The first is groundwork-laying lectures that focus on fundamental rights and obligations of debtors, creditors, and other parties in interest in the various types of major chapter 11 cases, providing critical insight into understanding the motivations, strategies, and available tools for chapter 11 participants (which also serve as the foundation for out-of-court deals). The second element of the course is a series of case study panels based on market trends from the previous year that bring together key participants from recent deals, including the CEO or chairman of the company, the judge, the lead banker and lead lawyer, and the lead investors to give their insight and perspectives to the class.
Taught by: Bilge Yilmaz will co-teach with James Spayregen, Edward Sassower, Stephen Hessler
Course usually offered in fall term
Also Offered As: FNCE 791, LAW 908
Prerequisite: FNCE 100
Activity: Lecture
1.0 Course Unit

**FNCE 297 Taxes and Business Strategy**
The objective of this course is to develop a framework for understanding how taxes affect business decisions. The key themes of the framework - all parties, all taxes and all costs - are applied to decision contexts such as investments, compensation, organizational form, and mergers and acquisitions. The ultimate goal is to provide a new approach to thinking about taxes that will be valuable even as laws and governments change. If ACCT 297 is not cross listed with ACCT 897, Undergraduate students interested in ACCT 297 will need to be permitted into ACCT 897. All prerequisites need to be completed in order to receive a permit. Please email acct-staff@wharton.upenn.edu. Also this class will follow the MBA calendar.
Taught by: Blouin
One-term course offered either term
Also Offered As: ACCT 297, ACCT 897, FNCE 797
Prerequisite: ACCT 101 AND FNCE 101
Activity: Lecture
1.0 Course Unit

**FNCE 311 Infrastructure Investing**
Infrastructure covers roads and bridges (the original infrastructure), to railroads, airports (the more recent infrastructure), to telecommunications and solar and wind power installations (modern infrastructure). There is a vast amount of public (taxpayer) and private (typically private equity or banks) money directed into infrastructure investments. This course covers infrastructure financing and investing from various angles. We will provide descriptions of types of infrastructure, examine the financing needs of different infrastructure projects, consider the historic role of public and private funding, assess the changing needs of consumers, role of technology and the increasing demands posed by a globalizing economy. We will also examine infrastructure investing as a alternative asset class from the investors' perspective. FNCE 203 or FNCE 207 are recommended.
Taught by: Kevin Kaiser
Also Offered As: FNCE 811
Prerequisite: FNCE 100
Activity: Lecture
0.5 Course Units

**FNCE 351 ASP - Finance and Society**
This interdisciplinary course delves into the history of different economic and financial systems around the world. Students will analyze the economic and financial interactions between individuals, financial and non-financial corporations, governments, and the media under various systems and through the pre-modern, modern and postmodern eras. After theoretically exploring each system and their underlying philosophy, students critically evaluate them through data-driven analysis. In the process, the course offers students a rigorous introduction to the scientific method and its enlightenment origins, as well as the resulting empirical tools used in the social sciences. The course will be intellectually rigorous but not overly mathematical.
Taught by: Jules Van Binsbergen
One-term course offered either term
Prerequisite: FNCE 100 AND (FNCE 101 OR ECON 102)
Activity: Lecture
0.5 Course Units

**FNCE 386 ASP - Hedge Funds**
This course will cover critical aspects and characteristics of hedge funds and the hedge fund industry. It will look at the legal foundations and structures of hedge funds including the primary regulations in the U.S. and abroad that are most relevant for hedge funds. It will also present the major hedge fund strategies, describe operation, control, administration, due diligence and valuation issues. Performance evaluation and investing in hedge funds from the investor's perspective will be discussed as will be issues of potential changes in regulation, risk management, and the use of leverage. The format of the course will mix lectures with presentations from industry participants, hedge fund managers, those who invest in hedge funds, those who advise them and provide services to them, and those who regulate them. Those who want to launch a hedge fund, join an existing one, invest in one, or provide services to one will want to register for this course.
Taught by: Changes by semester
Course usually offered in fall term
Prerequisite: FNCE 100
Activity: Lecture
0.5 Course Units
FNCE 392 Financial Engineering
This course expands the key insights from the prior quantitative finance classes such as Derivatives and Fixed Income by using more advanced tools in statistics and applied mathematics. Its focus is on devising new and innovative financial products, often employing financial derivatives and related dynamic strategies, to address portfolio and risk-management problems. The course structure involves an introductory lecture and case discussions in the first half, and a capstone "real life" group project where students will seek to address specific problems in finance faced by sell-side banks, and buy-side corporate clients or investment funds. Each project will focus on practical economic needs and standard activities of a specific client and/or bank and the use of derivatives and dynamic strategies to solve them. Programming skills and an exposure to numerical methods are an important part of the project in this course.
Taught by: Krishna Ramaswamy
Also Offered As: FNCE 892
Prerequisite: FNCE 100 AND (FNCE 101 OR ECON 102)
Activity: Lecture
0.5 Course Units

FNCE 399 Supervised Study in Finance
Integrates the work of the various courses and familiarizes the student with the tools and techniques of research.
Prerequisite: FNCE 100 AND (FNCE 101 OR ECON 102)
Activity: Independent Study
1.0 Course Unit

FNCE 401 Advanced Topics in PE
This course will cover a variety of applied topics in private equity (PE) with a focus on growth and later-stage buyout transactions. It will have a primarily U.S.-centric view that is largely applicable to other markets. Venture capital is not explicitly addressed in this course. Course topics will address the entirety of the deal process and value creation in the post-acquisition period, and will include the following: - LBO modeling - Commercial due diligence (principles and execution) - Debt financing - Sale & purchase agreements (SPA) - Accounting diligence - Deal structuring - Operations & Value creation Throughout the course, students will learn about each element of the deal process through in-class lectures, while concurrently applying those learnings to former transactions (these must be old enough that sharing material is no longer sensitive). The in-class lectures will cover conceptual frameworks, practical considerations and real-world case studies and examples. There will be four assignments in this course. The first three assignments will apply these learnings to the art of the deal through a real world lens. In the last assignment, students will develop a value creation plan for designated public companies "TargetCo1" and "TargetCo2". Students are expected to actively engage in classroom discussions, challenging one another and the instructors about how to think through these issues in an ever-evolving investment world. In addition, throughout the course, students are expected to work as a team on the assignments.
Taught by: Bilge Yilmaz and Burcu Esmer
One-term course offered either term
Also Offered As: FNCE 801
Prerequisite: (FNCE 101 OR ECON 102) AND FNCE 251
Activity: Lecture
1.0 Course Unit

FNCE 402 Shareholder Activism
The aim of the course is to provide an introduction to shareholder activism. The course makes use of lectures and case studies. The lectures expose the students to the institutional and empirical facts as well as approaches followed by leading shareholder activists. The case studies are designed to provide students an experience on identifying potential opportunity for value creation through active engagement. Assignments require students to develop/practice skills on fundamental analysis.
Taught by: Bilge Yilmaz and Kevin Kaiser
Course usually offered in fall term
Also Offered As: FNCE 802
Prerequisite: FNCE 100 AND (FNCE 101 OR ECON 102)
Activity: Lecture
1.0 Course Unit

FNCE 403 Behavioral Finance
This course combines insights from behavioral economics and psychology to shed light on anomalous decisions by investors and possibly behavior of asset prices. Its content is designed to both complement and challenge the "rational" investment paradigms developed in the early finance classes. It introduces students to much modern theoretical and empirical research showing this paradigm to be insufficient to describe various features of actual financial markets. The course structure involves early lectures, several cases, and a final project involving "real life" examples and some modern research methods. In the capstone project students research and explore a specific behavioral bias or a profitable investment opportunity. Students will work in groups to simulate the behavior of, say, a portfolio management team looking for a new trading strategy; a consulting firm advising corporations on issues of financial management; or an entrepreneurial start-up developing a retail financial product. The main deliverable is in a form of a "pitch" to potential clients to be delivered both in the form of a group presentation in class and a formal write-up to be submitted by the due date. Completion of FNCE 203 and FNCE 205 is recommended.
Taught by: Marius Guenzel
Course usually offered in spring term
Also Offered As: FNCE 739
Prerequisite: FNCE 100 AND (FNCE 101 OR ECON 102)
Activity: Lecture
1.0 Course Unit

FNCE 611 Corporate Finance
This course serves as an introduction to business finance (corporate financial management and investments) for both non-majors and majors preparing for upper-level course work. The primary objective is to provide the framework, concepts, and tools for analyzing financial decisions based on fundamental principles of modern financial theory. The approach is rigorous and analytical. Topics covered include discounted cash flow techniques; corporate capital budgeting and valuation; investment decisions under uncertainty; capital asset pricing; options; and market efficiency. The course will also analyze corporate financial policy, including capital structure, cost of capital, dividend policy, and related issues. Additional topics will differ according to individual instructors.
Taught by: Varies by semester
One-term course offered either term
Also Offered As: FNCE 100
Activity: Lecture
1.0 Course Unit
FNCE 613 Macroeconomics and the Global Economic Environment
This course is required for all students except those who, having prior training in macroeconomics, money and banking, and stabilization policy at an intermediate or advanced level, can obtain a waiver by passing an examination. The purpose of the course is to train students to think systematically about the current state of the economy and macroeconomic policy, and to be able to evaluate the economic environment within which business and financial decisions are made. The course emphasizes the use of economic theory to understand the workings of financial markets and the operation and impact of government policies. We will study the determinants of the level of national income, employment, investment, interest rates, the supply of money, inflation, exchange rates, and the formulation and operation of stabilization policies.
Taught by: Varies by semester
One-term course offered either term
Also Offered As: FNCE 101
Activity: Lecture
1.0 Course Unit

FNCE 621 Corporate Finance (Half CU)
(Formerly FNCE 614) This half-semester course serves as an introduction to corporate investments for non-majors. The primary objective is to provide a framework, concepts, and tools for analyzing financial decisions based on fundamental principles of modern financial theory. Topics covered include discounted cash flow techniques, corporate capital budgeting and valuation, investment decisions under uncertainty, and capital asset pricing. The approach is rigorous and analytical but the course will not cover several topics included in the full semester Corporate Finance course, including: market efficiency, corporate financial policy (including capital structure, cost of capital, dividend policy, and related issues), and options.
Taught by: Varies by semester
One-term course offered either term
Activity: Lecture
0.5 Course Units

FNCE 623 Macroeconomics and The Global Economic Environment (Half CU)
(Formerly FNCE 615) This half-semester course in Macroeconomics is intended for non-finance majors. The goal of this course is to provide the foundation needed to recognize and understand broad economic and financial movements in the global economy. Key topics include national income accounting, production and economic growth, employment, business cycles, monetary and fiscal policy, and international finance. By the end of this course, students will be able to evaluate and discuss the global economic environment in which business and financial decisions are made.
Taught by: Varies by semester
One-term course offered either term
Activity: Lecture
0.5 Course Units

FNCE 703 Advanced Corporate Finance
(Formerly FNCE 726) The objective of this course is to study the major decision-making areas of managerial finance and some selected topics in financial theory. The course reviews the theory and empirical evidence related to the investment and financing policies of the firm and attempts to develop decision-making ability in these areas. This course serves as an extension of FNCE 611. Some areas of financial management not covered in FNCE 611 are covered in FNCE 703. These may include leasing, mergers and acquisitions, corporate reorganizations, financial planning, and working capital management, and some other selected topics. Other areas that are covered in FNCE 611 are covered more in depth and more rigorously in FNCE 703. These include investment decision making under uncertainty, cost of capital, capital structure, pricing of selected financial instruments and corporate liabilities, and dividend policy.
Taught by: Varies by semester
One-term course offered either term
Also Offered As: FNCE 203
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 705 Investment Management
(Formerly FNCE 720) This course studies the concepts and evidence relevant to the management of investment portfolios. Topics include diversification, asset allocation, portfolio optimization, factor models, the relation between risk and return, trading, passive (e.g., index-fund) and active (e.g., hedge-fund, long-short) strategies, mutual funds, performance evaluation, long-horizon investing and simulation. The course deals very little with individual security valuation and discretionary investing (i.e., “equity research” or “stock picking”).
Taught by: Varies by semester
One-term course offered either term
Also Offered As: FNCE 205
Prerequisite: FNCE 611 AND (STAT 613 OR STAT 621)
Activity: Lecture
1.0 Course Unit

FNCE 707 Valuation
(Formerly FNCE 728) The focus of this course is on the valuation of companies. The course covers current conceptual and theoretical valuation frameworks and translates those frameworks into practical approaches for valuing companies. The relevant accounting topics and the appropriate finance theory are integrated to show how to implement the valuation frameworks discussed on a step-by-step basis. The course teaches how to develop the required information for valuing companies from financial statements and other information sources in a real-world setting. Topics covered in depth include discounted cash flow techniques and price multiples. In addition, the course covers other valuation techniques such as leveraged buyout analysis.
Taught by: Varies by semester
One-term course offered either term
Also Offered As: FNCE 207
Prerequisite: FNCE 611 AND (ACCT 611 OR ACCT 613) AND (STAT 613 OR STAT 621)
Activity: Lecture
1.0 Course Unit
FNCE 717 Financial Derivatives
This course covers one of the most exciting and fundamental areas in finance. Financial derivatives serve as building blocks to understand broad classes of financial problems, such as complex asset portfolios, strategic corporate decisions, and stages in venture capital investing. The main objective of this course is build intuition and skills on (1) pricing and hedging of derivative securities, and (2) using them for investment and risk management. In terms of methodologies, we apply the non-arbitrage principle and the law of one price to dynamic models through three different approaches: the binomial tree model, the Black-Scholes-Merton option pricing model, and the simulation-based risk neutral pricing approach. The course covers a wide range of applications, including the use of derivatives in asset management, the valuation of corporate securities such as stocks and corporate bonds with embedded options, interest rate and credit derivatives, as well as crude oil derivatives. We emphasize practical considerations of implementing strategies using derivatives as tools, especially when no-arbitrage conditions do not hold.

Taught by: Varies by semester
One-term course offered either term
Also Offered As: FNCE 217
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 719 International Financial Markets and Cryptocurrencies
Major topics include foreign exchange rates, international money markets, currency and interest rate derivatives, international stock and bond portfolios, and cryptocurrencies. Students learn about the features of financial instruments and the motivations of market participants. The class focuses on risk management, investing, and arbitrage in these markets. In addition to course prerequisites, FNCE 613 is recommended but not required.

Taught by: Urban Jermann
One-term course offered either term
Also Offered As: FNCE 219
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 721 Real Estate Investment: Analysis and Financing
This course provides an introduction to real estate with a focus on investment and financing issues. Project evaluation, financing strategies, investment decision making and capital markets are covered. No prior knowledge of the industry is required, but students are expected to rapidly acquire a working knowledge of real estate markets. Classes are conducted in a standard lecture format with discussion required. The course contains cases that help students evaluate the impact of more complex financing and capital markets tools used in real estate. Lecture with discussion required.

Taught by: Ferreira, Handbury, Harari, Keys, Sinai, Wong
One-term course offered either term
Also Offered As: FNCE 209, REAL 209, REAL 721
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 725 Fixed Income Securities
This course covers fixed income securities (including fixed income derivatives) and provides an introduction to the markets in which they are traded, as well as to the tools that are used to value these securities and to assess and manage their risk. Quantitative models play a key role in the valuation and risk management of these securities. In addition to course prerequisites, FNCE 613 is recommended but not required.

Taught by: Varies by semester
Course usually offered in fall term
Also Offered As: FNCE 225
Prerequisite: FNCE 611 AND (STAT 613 OR STAT 621)
Activity: Lecture
1.0 Course Unit

FNCE 730 Urban Fiscal Policy
This course will examine the provision of public services for firms and people through cities. Why cities exist, when fiscal policy fails, investments in infrastructure, realities of local governments such as inequality, crime, corruption, high cost of living, congestion, and unfunded pensions and debt, will be covered. We will pay special attention to recent topics, such as partnerships with the private sector, enterprise zones, the role of technology, environmental challenges, and real estate policies that promote housing affordability, such as rent control and inclusionary zoning.

Taught by: Fernando Ferreira
Course usually offered in fall term
Also Offered As: BEPP 773, REAL 730
Activity: Lecture
1.0 Course Unit

FNCE 731 Global Valuation and Risk Analysis
(Formerly named International Corporate Finance) This course analyzes the financial management problems that result from operating in global environments. Key topics include managing currency risk through hedging and financing, calculating the cost of capital for foreign operations, assessing sovereign risks, capital budgeting from a project and parent perspective, and international taxation.

Taught by: Professor Karen Lewis
Course usually offered in spring term
Also Offered As: FNCE 231
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 732 International Banking
This course focuses on international financial institutions, especially the activities of global, systemically important banks. We will examine how current and historical events are reshaping the industry and highlight the basic analytics of managing a bank’s exposure to liquidity, credit, market and reputational risk. Most classes will begin with discussion of a current event related to course topics. Three team projects will be assigned that will give you deeper exposure to analytic techniques related to the course. Throughout the semester, we will discuss public policy issues facing the international financial system. In addition to course prerequisites, FNCE 613 is recommended.

Taught by: Professor Richard Herring
Course usually offered in spring term
Also Offered As: FNCE 232
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit
FNCE 737 Data Science for Finance
This course will introduce students to data science for financial applications using the Python programming language and its ecosystem of packages (e.g., Dask, Matplotlib, Numpy, Numba, Pandas, SciPy, Scikit-Learn, StatsModels). To do so, students will investigate a variety of empirical questions from different areas within finance by way of data labs, or case studies that rely on data and analytics. Some of the areas that may be covered in the course, subject to time constraints, include: FinTech, investment management, corporate finance, corporate governance, venture capital, private equity. The course will highlight how big data and data analytics shape the way finance is practiced. Some programming and experience is helpful though knowledge of Python is not assumed.
Taught by: Varies by semester
Course usually offered in spring term
Also Offered As: FNCE 237
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 738 Capital Markets
The objective of this course is to give you a broad understanding of the instruments traded in modern financial markets, the mechanisms that facilitate their trading and issuance, as well as, the motivations of issuers and investors across different asset classes. The course will balance functional and institutional perspectives by highlighting the problems capital markets participants are seeking to solve, as well as, the existing assets and markets which have arisen to accomplish these goals. We will consider design, issuance, and pricing of financial instruments, the arbitrage strategies which keep their prices in-line with one another, and the associated economic and financial stability issues. The course is taught in lecture format, and illustrates key concepts by drawing on a collection of case studies and visits from industry experts. FNCE 613 is recommended but not required.
Taught by: Varies by semester
One-term course offered either term
Also Offered As: FNCE 238
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 739 Behavioral Finance
There is an abundance of evidence suggesting that the standard economic paradigm - rational agents in an efficient market - does not adequately describe behavior in financial markets. In this course, we will survey the evidence and use psychology to guide alternative theories of financial markets. Along the way, we will address the standard argument that smart, profit-seeking agents can correct any distortions caused by irrational investors. Further, we will examine more closely the preferences and trading decisions of individual investors. We will argue that their systematic biases can aggregate into observed market inefficiencies, thus giving rise to apparently profitable trading strategies. The latter part of the course extends the analysis to corporate decision making. We then explore the evidence for both views in the context of capital structure, investment, dividend, and merger decisions. In addition to prerequisites, FNCE 705 is highly recommended but not required.
Taught by: Marius Guenzel
Course usually offered in spring term
Also Offered As: FNCE 403
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 740 Central Banks, Macroeconomic Policy and Financial Markets
(Formerly FNCE 893) Understanding and predicting central banking decision making and behavior is crucial for all market participants from asset managers and traders to private consumers. This course aims to provide the methods and knowledge on how central banks and governments think and implement policies to reach the goals of price and financial stability as well as support of growth and employment. The core of the course connects between the legal and actual goals that central banks follow and the related economic analysis on which these goals and policies are set. We explain the economic rationale for the policy prescriptions to reach the goals and how these policies are actually implemented by the Federal Reserve Bank (Fed) in the US, the European Central Bank (ECB), Bank of Israel (BOI) and some remarks on other countries. We use data, current events of the 2007-2018 period as the basis for discussion and assignments. The second half of the course discusses the implications of these policies for equity and bond valuations. Students will be asked to forecast live policy decisions and implied market valuations.
Taught by: Zvi Eckstein and Joao Gomes
Course usually offered in fall term
Also Offered As: FNCE 240
Prerequisite: FNCE 613 AND STAT 613
Activity: Lecture
1.0 Course Unit

FNCE 750 Venture Capital and the Finance of Innovation
This course covers the finance of technological innovation, with a focus on the valuation tools useful in the venture capital industry. These tools include the "venture capital method," comparables analysis, discounted cash flow analysis, contingent-claims analysis. The primary audience for this course is finance majors interested in careers in venture capital or in R&D-intensive companies in health care or information technology.
Taught by: Luke Taylor
Course usually offered in spring term
Also Offered As: FNCE 250
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 751 The Finance of Buyouts and Acquisitions
The course focuses on financial tools, techniques, and best practices used in buyouts (financial buyers) and acquisitions (strategic buyers). While it will touch upon various strategic, organizational, and general management issues, the main lens for studying these transactions will be a financial one. It will explore how different buyers approach the process of finding, evaluating, and analyzing opportunities in the corporate-control market; how they structure deals and how deal structure affects both value creation and value division; how they add value after transaction completion; and how they realize their ultimate objectives (such as enhanced market position or a profitable exit). The course is divided into two broad modules. The first module covers mergers and acquisitions, and the second one studies buyouts by private equity partnerships. FNCE 703 or FNCE 707 are recommended.
Taught by: Burcu Esmer and Karin Thorburn
Course usually offered in fall term
Also Offered As: FNCE 251
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit
FNCE 753 Distressed Investing and Value Creation
(Formerly FNCE 841) This course familiarizes students with financial, strategic and legal issues associated with the restructuring of financially distressed firms and investment in distressed securities. The objective is to give students the concepts and tools necessary to assess the often-complex situation facing a firm in financial distress. The course covers the various options available for distressed firms, such as out-of-court workouts, exchange offers, prepackaged and pre-negotiated bankruptcies, distressed asset sales, 363 auctions, and Chapter 11 reorganization. We consider distressed debt as an asset class, develop techniques for investing in distressed securities and assess investment opportunities using the concepts of value investing. Students will sharpen their conceptual knowledge of finance and valuation in order to properly estimate the value of a distressed firm, and its securities. We will also address the importance of value creation and how to manage for value creation to either resolve distress or avoid it in the first place. FNCE 703 or FNCE 707 are recommended.
Taught by: Kevin Kaiser
One-term course offered either term
Also Offered As: FNCE 253
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 754 Impact Investing
This course explores Impact Investing, a discipline that seeks to generate social benefits as well as financial returns. From tiny beginnings, the Impact Investment space has expanded and now commands significant attention from policymakers, wealthy and public-spirited individuals, academia and, not least, the world’s largest asset managers and philanthropic foundations. Evangelists believe it may be the key to freeing the world from poverty. Skeptics think it will remain confined to the boutique. Regardless, Impact Investing is becoming a distinct career specialization for finance professionals despite the diverse skillset each must have and the uncertainty of the new field’s growth. In addition to prerequisites, FNCE 705 is recommended but not required.
Taught by: Christopher Geczy
Course usually offered in spring term
Also Offered As: FNCE 254
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 756 Energy Finance
The objective of this course is to provide students with detailed knowledge of corporate structures, valuation methods, project finance, risk management practices, corporate governance issues, and geopolitical risks in the energy industry. In general, this course seeks to provide students with an overall context for understanding energy issues and risks, and how these might affect financing and investment decisions for both providers of energy and end-users of energy. FNCE 703 and FNCE 707 are recommended but not required.
Taught by: Erik Giljie
Course usually offered in spring term
Also Offered As: FNCE 256
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 757 Foundations of Asset Pricing
This course will cover methods and topics that form the foundations of modern asset pricing. These include: investment decisions under uncertainty, mean-variance theory, capital market equilibrium, arbitrage pricing theory, state prices, dynamic programming, and risk-neutral valuation as applied to option prices and fixed-income securities. Upon completion of this course, students should acquire a clear understanding of the major principles concerning individuals’ portfolio decisions under uncertainty and the valuations of financial securities. FNCE 705 is recommended but not required.
Taught by: Jessica Wachter
Course usually offered in spring term
Also Offered As: FNCE 257
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 780 FinTech
(Formerly FNCE 885) The course exposes students to this fast-growing and exciting intersection between finance (Fin) and technology (Tech) while emphasizing the role data and analytics play. The course is structured around three main FinTech areas: (i) Lending/Banking services, (ii) Clearing (iii) Trading. It provides specific coverage and examples of developments from (1) market-place lending, (2) blockchain and distributed ledgers, (3) quantitative trading and its use of non-standard inputs. In each of these areas, we start by analyzing the marketplace, the incumbents, and then proceed to analyze the impact of the most relevant technologies have on the business. The course is built around data/code examples, cases, guest lectures, and group projects. Student are thus expected to work in teams and demonstrate a high level of independent learning and initiative.
Taught by: Shimon Kogan
Course usually offered in spring term
Also Offered As: FNCE 280
Prerequisite: FNCE 611
Activity: Lecture
0.5 Course Units

FNCE 783 Strategic Equity Finance
This course discusses actual situations where companies need to make strategic decisions on raising equity capital. We will address different phases of a company’s life cycle. Through these cases, from the decision-makers perspective, we will explore the different paths that can be taken and consider issues. This half-semester course combines lectures and cases, and will go through actual situation where companies need to make strategic decisions on raising equity capital. We will address different phases of a company’s life cycle. Through these cases, from the decision-makers perspective, we will explore the different paths that can be taken and consider issues such as investor activism, governance and regulatory and valuation impact. FNCE 738 is recommended but not required.
Taught by: David Musto and David Erickson
Course usually offered in spring term
Also Offered As: FNCE 283
Prerequisite: FNCE 611
Activity: Lecture
0.5 Course Units
FNCE 785 Business Strategy & Corp

This course explores strategic, business and legal decision making in a fluid real world corporate context. Classes will cover a series of timely financial and legal subjects as well as case studies that deal with topical problems in corporate governance, investment strategy, finance, private equity, executive compensation, and potential corporate and criminal behavior. Press, public market reaction, and governmental/political considerations will be integrated into the discussion. All students will be required to participate in at least one major and two minor team projects. An equal number of graduate law and business students will be enrolled in this class.

Taught by: Perry Golkin
Also Offered As: LAW 542, LGST 785
Activity: Lecture
1.0 Course Unit

FNCE 791 Corporate Restructuring

This course explores the highly active and sophisticated deal making environment that is the hallmark of modern corporate restructuring. The course is primarily comprised of two key components. The first is groundwork-laying lectures that focus on fundamental rights and obligations of debtors, creditors, and other parties in interest in the various types of major chapter 11 cases. The second element of the course is a series of case study panels based on market trends from the previous year that bring together key participants from recent deals, including the CEO or chairman of the company, the judge, the lead banker and lead lawyer, and the lead investors to give their insight and perspectives to the class.

Course usually offered in fall term
Also Offered As: FNCE 291, LAW 908
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 797 Taxes and Business Strategy

The objective of this course is to develop a framework for understanding how taxes affect business decisions. Traditional finance and strategy courses do not consider the role of taxes. Similarly, traditional tax courses often ignore the richness of the decision context in which tax factors operate. The key themes of the framework - all parties, all taxes and all costs - are applied to decision contexts such as investments, compensation, organizational form, regulated industries, financial instruments, tax-sheltered investments, mergers and acquisitions, multinational, and multistate. The ultimate goal is to provide a new approach to thinking about taxes (and all forms of government intervention) that will be valuable even as laws and governments change.

Taught by: Blouin
One-term course offered either term
Also Offered As: ACCT 297, ACCT 897, FNCE 297
Prerequisite: (ACCT 611 OR ACCT 613) AND FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 801 Advanced Topics in Private Equity

(Formerly FNCE 884) The goal of this course is to educate students about the substance, process and mechanics of PE investing, through the lens of the investment professionals, counterparties and advisors that drive transactions to completion. It focuses on growth and later-stage buyout transactions (excluding venture capital) taking a primarily U.S.-centric view that should be largely applicable in other markets. The course concentrates on the transaction stage of PE investing, mostly leaving aside deal sourcing, portfolio management and investor relations. Course topics will include: commercial diligence (incl. financial modeling), debt financing, accounting diligence, sales & purchase agreements, comps analysis and other advisory work. Students will apply each element of the deal process to a real-time mock deal by preparing materials that mirror a real private equity transaction.

Taught by: Bilge Yilmaz and David Bard
One-term course offered either term
Also Offered As: FNCE 401
Prerequisite: FNCE 703
Activity: Lecture
1.0 Course Unit

FNCE 802 Shareholder Activism

(Formerly FNCE 887) The aim of the course is to provide an introduction to shareholder activism. The course makes use of lectures and case studies. The lectures expose the students to the institutional and empirical facts as well as approaches followed by leading shareholder activists. The case studies are designed to provide students an experience on identifying potential opportunity for value creation through active engagement. Assignments require students to develop/practice skills on fundamental analysis.

Taught by: Bilge Yilmaz and Kevin Kaiser
Course usually offered in fall term
Also Offered As: FNCE 402
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit

FNCE 811 ASP - Infrastructure Investing

Infrastructure covers roads and bridges (the original infrastructure), to railroads, airports (the more recent infrastructure), to telecommunications and solar and wind power installations (modern infrastructure). There is a vast amount of public (taxpayer) and private (typically private equity or banks) money directed into infrastructure investments. This course covers infrastructure financing and investing from various angles. We will provide descriptions of types of infrastructure, examine the financing needs of different infrastructure projects, consider the historic role of public and private funding, assess the changing needs of consumers, role of technology and the increasing demands posed by a globalizing economy. We will also examine infrastructure investing as a alternative asset class from the investors’ perspective. FNCE 703 or FNCE 707 are recommended.

Taught by: Kevin Kaiser
Also Offered As: FNCE 311
Prerequisite: FNCE 611
Activity: Lecture
1.0 Course Unit
**FNCE 812 The Finance, Economics and Law of Fiscal Crises**
The focus will be on the causes of fiscal crises, a careful detailing of who wins and who loses, and then on how such crises might be resolved and, perhaps most importantly, how they might be prevented in the future. The course will draw upon the fiscal experiences of US local governments (New York, Philadelphia, Detroit, Orange County, Puerto Rico), utilities (WPPSS) and states (Illinois), and the international experience from such countries as Greece, Brazil, and Argentina. The cost of such crises for citizens, pensioners, and bond holders can be significant. We seek to understand the underlying economic, political, and legal/regulatory causes of such events so that they may be prevented in the future. The importance of private information and public regulation for disciplining the fiscal performance of democratically elected governments will be a central concern. We believe strongly that diagnosing and treating the "disease" of fiscal mismanagement is an interdisciplinary endeavor drawing on finance, economics, political science, and the law. Students with backgrounds in any of these disciplines are welcome. Taught by: Robert Inman and David Skeel

Also Offered As: LAW 609
Activity: Lecture
1.0 Course Unit

**FNCE 886 ASP - Hedge Funds**
This course will cover critical aspects and characteristics of hedge funds and the hedge fund industry. It will look at the legal foundations and structures of hedge funds including the primary regulations in the U.S. and abroad that are most relevant for hedge funds. It will also present the major hedge fund strategies, describe operation, control, administration, due diligence and valuation issues. Performance evaluation and investing in hedge funds from the investor's perspective will be discussed as will be issues of potential changes in regulation, risk management, and the use of leverage. The format of the course will mix lectures with presentations from industry participants, hedge fund managers, those who invest in hedge funds, those who advise them and provide services to them, and those who regulate them. Those who want to launch a hedge fund, join an existing one, invest in one, or provide services to one will want to register for this course. Taught by: Varies by semester

Prerequisite: FNCE 611
Activity: Lecture
0.5 Course Units

**FNCE 888 Adv PE-Fundraising, Sourcing and Value Creation**
This course is for second year MBA students. Please note: Students cannot receive credit for both FNCE 884 and FNCE 888. This course will address a variety of topics in private equity (PE) leveraging a highly practical and real-world approach. It will focus on growth and later-stage buyout transactions (venture capital is not explicitly addressed in this course), and a primarily U.S.-centric view that should be largely applicable in other markets. The course will focus on several key areas outside the private equity transaction: fundraising, sourcing investment opportunities, and creating value under PE ownership. The goal of this course is to educate students about these aspects of PE investing through the lens of the investment professionals, consultants, counterparties and advisors that live them each day. Students will be expected to actively engage in classroom discussions, challenging one another and the lecturers about how to think through these issues in an ever-evolving investment world. In addition, throughout the course, students will be expected participate actively with their teams as they proceed with at home assignments. Taught by: Varies by semester

Prerequisite: FNCE 751
Activity: Lecture
1.0 Course Unit

**FNCE 892 Financial Engineering**
This class covers advanced pricing models for equity, fixed income and credit derivatives. It aims at: 1) Introducing the main models used in practical applications to price and hedge derivatives; 2) Understanding their comparative advantages and limitations, as well as how they are calibrated and applied. As part of team assignments, students will be asked to calibrate and implement the models introduced in the class using software of their choice. Taught by: Krishna Ramaswamy

Also Offered As: FNCE 392
Prerequisite: FNCE 717 OR FNCE 725
Activity: Lecture
1.0 Course Unit

**FNCE 896 Finance in Europe (GMC)**
Open to MBA, Executive MBA and Undergraduate students, these modular courses are intended to provide unique educational experiences to students in a regional context that has particular resonance with the topic. Taught around the globe, the modular courses help us enrich the curriculum and research on our own campuses in Philadelphia and San Francisco. Taught by: Bulent Gultekin

Course not offered every year
Also Offered As: WH 215
Activity: Lecture
0.5 Course Units

**FNCE 897 Finance in Emerging Markets (GMC)**
This is a Wharton Global Modular Course on finance in the Middle East and North Africa. Its objective is to bring students, academics and industry experts together to study financial markets, practice, and institutions in this region. Taught by: Bulent Gultekin

Course not offered every year
Also Offered As: WH 214
Activity: Lecture
0.5 Course Units
FNCE 899 Independent Study Project in Finance
Independent Study Projects require extensive independent work and a considerable amount of writing. ISP in Finance are intended to give students the opportunity to study a particular topic in Finance in greater depth than is covered in the curriculum. The application for ISP’s should outline a plan of study that requires at least as much work as a typical course in the Finance Department that meets twice a week. Applications for FNCE 899 ISP’s will not be accepted after the THIRD WEEK OF THE SEMESTER. ISP’s must be supervised by a Standing Faculty member of the Finance Department.
Taught by: Varies by Project
Prerequisite: FNCE 611 AND FNCE 613
Activity: Independent Study
1.0 Course Unit

FNCE 911 Financial Economics
The objective of this course is to undertake a rigorous study of the theoretical foundations of modern financial economics. The course will cover the central themes of modern finance including individual investment decisions under uncertainty, stochastic dominance, mean variance theory, capital market equilibrium and asset valuation, arbitrage pricing theory, option pricing, and incomplete markets, and the potential application of these themes. Upon completion of this course, students should acquire a clear understanding of the major theoretical results concerning individuals’ consumption and portfolio decisions under uncertainty and their implications for the valuation of securities.
Course usually offered in fall term
Prerequisite: ECON 681 OR ECON 701
Activity: Lecture
1.0 Course Unit

FNCE 912 Corporate Finance and Financial Institutions
This course provides students with an overview of the basic contributions in the modern theory of corporate finance and financial institutions. The course is methodology oriented in that students are required to master necessary technical tools for each topic. The topics covered may include capital structure, distribution policy, financial intermediation, incomplete financial contracting, initial and seasoned public offerings, market for corporate control, product market corporate finance interactions, corporate reorganization and bankruptcy, financing in imperfect markets, security design under adverse selection and moral hazard, and some selected topics.
Course usually offered in spring term
Prerequisite: ECON 681 OR ECON 701
Activity: Lecture
1.0 Course Unit

FNCE 921 Introduction to Empirical Methods in Finance
This course is an introduction to empirical methods commonly employed in finance. It provides the background for FNCE 934, Empirical Research in Finance. The course is organized around empirical papers with an emphasis on econometric methods. A heavy reliance will be placed on analysis of financial data.
Course usually offered in spring term
Prerequisite: FNCE 911 AND STAT 510 AND STAT 511
Activity: Lecture
1.0 Course Unit

FNCE 922 Continuous-Time Financial Economics
This course covers some advanced material on the theory of financial markets developed over the last two decades. The emphasis is on dynamic asset pricing and consumption choices in a continuous time setting. The articles discussed include many classical papers in the field as well as some of the most recent developments. The lectures will emphasize the concepts and technical tools needed to understand the articles.
Course usually offered in fall term
Prerequisite: FNCE 911 AND ECON 701 AND ECON 703
Activity: Lecture
1.0 Course Unit

FNCE 923 Financial Economics Under Imperfect Information
This course covers general equilibrium and rational expectations, foundations of the theory of information; learning from prices in rational expectations equilibrium models, moral hazard, adverse selection, and signaling bidding theories.
Taught by: Varies by semester
Course not offered every year
Prerequisite: FNCE 922
Activity: Lecture
1.0 Course Unit

FNCE 924 Intertemporal Macroeconomics and Finance
This is a doctoral level course on macroeconomics, with special emphasis on intertemporal choice under uncertainty and topics related to finance. Topics include: optimal consumption and saving, the stochastic growth model, q-theory of investment, (incomplete) risk sharing and asset pricing. The course will cover and apply techniques, including dynamic programming, to solve dynamic optimization problems under uncertainty. Numerical solution methods are also discussed.
Course usually offered in spring term
Activity: Lecture
1.0 Course Unit

FNCE 925 Topics in Asset Pricing
This course exposes students to recent development in the asset pricing literature. The starting point for the course is the standard neo-classical rational expectations framework. We will then investigate where this framework has succeeded and where it has not. Recently documented deviations from the framework in the literature are discussed and placed in context. The course will also focus on hypothesis development, recent research methods, and research writing. The ultimate objective is for students to develop their own hypotheses and research ideas, resulting in a paper.
Taught by: Varies by semester
Course not offered every year
Prerequisite: ECON 681 OR ECON 701
Activity: Lecture
1.0 Course Unit
FNCE 926 Empirical Methods in Corporate Finance
The course will cover a variety of micro-econometric models and methods including panel data models, program evaluation methods e.g. difference in differences, matching techniques, regression discontinuity design, instrumental variables, duration models, structural estimation, simulated methods of moments. The structure of the course consists of lectures, student presentations, and empirical exercises. Published studies will be utilized in a variety of fields such as corporate finance, labor economics, and industrial organization to illustrate the various techniques. The goal of the course is to provide students with a working knowledge of various econometric techniques that they can apply in their own research. As such, the emphasis of the course is on applications, not theory. Students are required to have taken a graduate sequence in Econometrics, you should be comfortable with econometrics at the level of William Green's "Econometric Analysis of Cross-Section and Panel Data".
Taught by: Varies by semester
Course usually offered in fall term
Prerequisite: STAT 521
Activity: Lecture
1.0 Course Unit

FNCE 932 Topics in Corporate Finance
This course covers advanced theory and empirical investigations; financial decisions of the firm, dividends, capital structure, mergers, and takeovers.
Taught by: Varies by semester
Course not offered every year
Prerequisite: FNCE 922
Activity: Lecture
1.0 Course Unit

FNCE 933 International Finance
To provide an understanding of selected topics of current academic research in the areas of international finance and its interaction with international macroeconomics; to teach interested students the tools for conducting research in this field. Each topic will be developed beginning with early classic papers and then updated through the current status of the profession. The typical target audience comprises students in their second year or later. Prerequisite: Completion of first year course requirements
Taught by: Karen Lewis
Course usually offered in fall term
Activity: Lecture
1.0 Course Unit

FNCE 934 Empirical Methods In Asset Pricing
This course has three main objectives: The first object is to introduce students to the fundamental works and the frontier of research in dynamic asset pricing. We will cover recent models that have been proposed to shed light on intriguing and important empirical patterns in the cross section and in the time series. Topics include non-separable utilities, market incompleteness, learning, uncertainty, differences of opinions, ex-ante and ex-post asymmetric information, ambiguity and Knightian uncertainty. The second objective is to teach students how to think of asset pricing research under a bigger or richer framework. We shall focus on the interactions between asset pricing and other fields such as macroeconomics, corporate finance, financial institutions, and international finance. The goal of investigating the joint dynamics is not only to better understand how asset prices are determined, but also (maybe more importantly) how would asset pricing dynamics affect other important economic variables such as investment, corporate payout and financing, unemployment, risk sharing, and international capital flows. Students will learn production-based asset pricing models, particularly the asset pricing models with investment-specific technology shocks, risk shocks, financial friction, searching frictions and information frictions. Of course, the advanced solution methods will focus too. The third objective is to introduce advanced empirical methods to analyze the data and the quantitative dynamic models. It includes how to estimate structural dynamic models, how evaluate structural models beyond goodness-of-fit tests, how confront the models predictions with empirical data by simulation and re-sampling techniques, and how to efficiently test models and explore new patterns using asset pricing and macro data.
Course usually offered in fall term
Prerequisite: FNCE 911 AND FNCE 921
Activity: Lecture
1.0 Course Unit

FNCE 937 Topics in Macro Finance
This is an advanced course in quantitative theory applied to macro and finance models. It is intended for doctoral students in finance, economics and related fields. The course focuses on four broad theoretical literatures: (i) firm investment and growth; (ii) corporate, household and sovereign debt; (iii) asset pricing in general equilibrium; and (iv) equilibrium macro models with a financial sector. My approach is to develop and discuss in detail a unified framework that is suited to address most topics, usually covering a few central topics and the core papers. We then discuss the more recent literature, highlighting how authors combine and expand upon the core ideas. This part of the course usually relies on regular student presentations.
Course usually offered in fall term
Activity: Lecture
1.0 Course Unit

FNCE 950 Research Seminar in Finance
This course may be offered (and taken by a student) several times a year with varying topics.
One-term course offered either term
Activity: Seminar
1.0 Course Unit