FINANCE (EFIN)

EFIN 6100 Financial Accounting (2 Credit Hours)
- Familiarizes students with key financial accounting concepts, methods and terminology and introduces the tools of financial statement analysis. The
- financial reporting roles of management, auditors and regulators are studied, and students learn how accounting policy choices can influence reported
- performance and financial position. Students develop knowledge and skills that allow them to read, interpret and analyze financial statements at a
- basic level and to discuss business issues in accounting terms. (2 credit hours)

EFIN 6110 Accounting for Managers (2 Credit Hours)

EFIN 6120 Fincl Statement Analysis (2 Credit Hours)
- Explores the principles and techniques for understanding and interpreting financial statements, including statement comparability, income
- measurement and disclosure, cash flow analysis, ratio analysis and the disaggregation of ratios, quality of earnings, account analysis, and footnote
- disclosures. The financial relationships of the accounting model are applied to published financial statements. Cases are used extensively. (2 credit
- hours)

EFIN 6200 Decision Models (2 Credit Hours)
- Examines the art of solving problems under uncertainty. Course topics include descriptive statistics, probability, sampling distributions, confidence
- intervals, hypothesis testing and simple and multiple regressions. Methods are applied to management problems drawn from marketing, finance,
- economics, organizational behavior, and operations management. (2 credit hours)

EFIN 6300 Financial Management I (2 Credit Hours)
- This course provides a rigorous introduction to the field of financial economics. The first section of the course develops an analytical understanding of
- the time value of money concept, and applies it through basic techniques for the valuation of stocks, bonds, and investment projects. Various capital
- budgeting rules are also discussed in this section. The second section focuses on capital markets including the statistical concepts of covariance
- and diversification and the capital asset pricing model. The third section introduces capital structure policy and discusses the impact of the different
- financing choices on risk and required return on firm’s equity. This section also introduces the notion of weighted average cost of capital. (2 credit
- hours)

EFIN 6310 Financial Management II (2 Credit Hours)
- This course builds directly on the material covered in Financial Management I. The course focuses on the key policy decisions made in corporate
- finance and discusses their impact on firm and shareholder value. The course will include an in-depth analysis of firms’ financing choices and capital
- structure and their role in capital budgeting decisions. The course also introduces the different discounted cash flow valuation techniques for the
- valuation of corporate cash flows. The last third of the course focuses on options, option pricing, and applications of option pricing in corporate
- finance including warrant and convertible bond valuation. (2 credit hours)

EFIN 7100 Options (2 Credit Hours)

EFIN 7110 Portfolio Theory (2 Credit Hours)
- This course is concerned with the choice of investment strategies with differing risk/return characteristics, in the presence of uncertainty. We will
- examine the risk/return characteristics of both equities and fixed-income instruments. We will begin by looking at the market structure within which
- equities are traded, how market indexes are derived, and the various styles of professional asset management. Within the context of fixed-income
- investments, we will discuss the various theories of the term structure of interest rates, how to derive implied forward rates, and how to measure and
- manage interest rate risk using duration and convexity. Interest rate futures, options and swaps will also be discussed as instruments for managing
- interest rate risk in a fixed-income portfolio. Finally, we will discuss several equity valuation measurements and the concept of market efficiency.
- Empirical evidence for and against efficient markets will be examined, and the basic tenants of Behavioral Finance will be introduced. (2 credit
- hours)

EFIN 7120 Cases In Finance (2 Credit Hours)
- Through case analysis, this course explores ways to value different types of business enterprises. The course emphasizes discounted cash flow
- methods of valuation, though other methods, such as the method of multiples, the venture capital method, and real options are also introduced.
- Students develop and practice valuation skills, such as financial forecasting, cash flow measurement, discount rate estimation and continuing value
- calculation. In addition, students work with a variety of corporate situations, such as LBO’s, IPO’s, spin-offs, and mergers, in which valuation plays a
- key role. (2 credit hours)

EFIN 7130 Fixed Income Analytics (2 Credit Hours)
- This course examines the pricing and yield determinants of various fixed income securities including Treasury bills, notes and bonds, strips, corporate
- bonds, munis, mortgages, and asset-backed securities. Topics include the term structure of interest rates, duration, convexity, immunization, and the
- various types of risk that can affect the pricing of fixed income securities. Arbitrage-free pricing methods are explained. The course is designed to give
- students the quantitative tools they need to evaluate streams of fixed-income cash flows.
EFIN 7140 International Finance (2 Credit Hours)
International Finance is the sub-area of finance that studies the international investment decisions concerning real and financial assets. This course considers the concepts and theories of modern multinational financial management and gives participants a solid theoretical and practical background that serves to better understand the importance of risk management in a Multinational Corporation (MNCs) and the particularities of corporate finance and corporate governance in a global context.

EFIN 7150 Behavioral Finance (2 Credit Hours)

EFIN 7160 Corporate Risk Management (2 Credit Hours)

EFIN 7170 Energy Acct & Finance (2 Credit Hours)
This course will cover the fundamentals of the upstream oil and natural gas exploration and production process (E&P or upstream) and the key financial decisions and metrics. The various operational steps and related financial decisions will be followed through to their ultimate impact to a public E&P company's external financial statements. Students will be able to understand the immediate impact of various decisions on a company's cash and non-cash financial performance which in turn lead to future financial and operational flexibility and success.

EFIN 7180 Energy & Env Economics (2 Credit Hours)
In the past 50 years, the largest industries involved in the energy sector (oil, gas, and electric) have undergone profound changes and have had a large impact on the economy. Managers in the oil, natural gas, and electric industries have had to devise strategies to cope with changes in the marketplace and ever-changing governmental regulations. The energy industries feature a complex mix of regulation and market-driven incentives. Students in this class will learn to use fundamental tools of economics and finance to study the business and public policy issues involved in these energy markets from the exploration, production, distribution, and ultimate sale to consumers. Students will study a number of cases from each of these industries, critically analyzing positions and evidence and formulating recommendations by applying the economic concepts they have learned in the class.

EFIN 7190 Energy Investment Banking (2 Credit Hours)

EFIN 7200 Game Theory & Finance (2 Credit Hours)
This course is an introduction to strategic models of decision-making and equilibrium with applications to economics and finance. Topics to be covered are: Nash Equilibrium, game theory, auctions, dominant strategies, coordination games, extensive form applications, subgame perfection, mixed strategies, applications of mixtures, asymmetric information, moral hazard, evolutionary games and dynamics. The use of critical thinking skills and mathematical analysis will be at the master's level. Students completing this course will be able to understand the current issues in game theory and finance.

EFIN 7210 Financial Engineering (2 Credit Hours)
This course is designed to introduce students to financial innovation and strengthen the ability to tackle more structured financial problems. While the course is grounded solidly in theory, it also provides a thoroughly applied perspective of the topics: equity and debt, default and credit derivatives and interest rate models.

EFIN 7220 Financial Modeling (2 Credit Hours)
This course is about financial models and their use and simulation using Microsoft Excel. The models covered include Fixed Income Securities, Portfolio Optimization, and Option Pricing. The course content consists of a mix of theoretical models and model application.

EFIN 7300 Sas & Databases (2 Credit Hours)

EFIN 7310 Econometrics (2 Credit Hours)
Topics covered include econometrics basics, regression, formulas, statistics, variable bias, models, multicollinearity, hypothesis testing, binary variables heteroskedasticity, endogeneity, instrument variables, forecasting and speculation.

EFIN 7400 Statec Fin Plan & Cntrl (2 Credit Hours)

EFIN 7500 Venture Cap & Private Equity (2 Credit Hours)

EFIN 7560 Energy Trading-Electricity Mkt (2 Credit Hours)
The number of players in power markets, competing interests, and evolving regulatory policy gives electricity markets a unique niche in the world of commodity trading. The unique physical characteristics of its product, coupled with the nature of its delivery (and associated constraints) have created opportunities for trading shops and major corporations to rise and fall in a little more than a decade. As this market (slowly) matures, and regulation continues to improve market transparency and efficiency, it will be a bumpy ride. To better understand where these markets are going and where they have been, we shall first obtain a historical perspective. With a concrete understanding of the market evolution, we will then investigate what variables (both physical and political) influence market prices on a long term, day ahead, and real time basis. We will also study the infamous market failures, and how regulators have responded to eliminate opportunities for indiscretion. The course will conclude with a brief look at several recent regulatory enactments to more closely align the interests of all market participants and stakeholders (and perhaps make the invisible hand seem more human!) This course will include market simulation exercises which will give students the opportunity to experience Power Marketing from the perspectives of a pure-marketer, independent power producer, and regulated utility.
EFIN 7570 Entrepreneurial Real Estate (2 Credit Hours)

EFIN 7590 Advanced Topics in Finance (2 Credit Hours)
This course is divided into three parts. The first is a continuation of the game theory course with particular attention to topics to be covered elsewhere in the course. The second part of the course is introduction to business ethics with an emphasis on finance. Cases will come from the Giving Voice to Values (GVV) curriculum. The third part of the course addresses financial crises, with particular attention to the current financial crisis.

EFIN 7910 Executive Finance Internship (1-3 Credit Hours)