

Descriptions of Courses

FIN501 Corporate Financial Strategy

This course will examine the corporate financial policy. The issues discussed in this course will contain the capital structure policy, dividend payout policy, lease, executive compensation and merger and acquisitions.

FIN502 Introductory statistics for finance

This course offers the foundation of statistics to study the area of finance. Students will learn about topics such as probability, descriptive statistics, normal and student t-distributions, inference and hypothesis testing.

FIN503 Microanalysis of Financial Economics

This course is designed to provide the basic economic theory to understand finance. The topics will include the consumer theory, firm theory, industry organization, and equilibrium theory from the perspective of finance.

FIN504 Statistical Analysis for Finance

This course is designed to provide the framework for statistical analysis to study finance. Topics such as statistical inference, hypothesis testing, and regression analysis will be discussed.

FIN505 Financial Accounting I

This course examines basic concepts of financial accounting. This course provides a basic framework to understand the financial statement from the perspective users. It also provides overview of the basic financial statements - income statement, balance sheets, and cash flow statement.

FIN506 Financial Accounting II

This course examines basic concepts of financial statements from the perspective of users. It focuses on the elements that constitute financial statements.

FIN507 Firm Valuation

This course will provide the basic framework for valuing projects or firms. Topics discussed in this course will include the estimation of cash flow, the determination of appropriate risk-adjusted discount rate, Net Present Value method, and IRR method.

FIN508 Investment Theory and Analysis

This course is designed to deliver the principles of investment theory and analysis for students majoring in finance. Topics that will be discussed in this course will include the relation between the expected return and risk, asset pricing theories, portfolio management, and the market efficiency.

FIN509 Finance and Law

We discuss legal issues in finance. Especially, we examine the soundness of the bank management by exploring the Banking Act.

FIN510 Corporate Law

This course will first survey various forms of business association available in the current legal system in order to achieve business goals of securing sourcing, know-how, and market positioning. Then it will cover i) the fiduciary duties of the management, board of directors and controlling shareholder, ii) securities laws.

FIN511 Financial Economy and Macroeconomy

Financial markets and financial institutions are closely related with the macroeconomy. This course will teach the principles of macroeconomics and examine the macroeconomic effects on financial markets and financial institutions.

FIN512 Financial Economic Modeling

This course provides the concept of agent-based Modeling and the application to financial market. The irrational behaviors of investors and many anomalies in the financial market can be modeled by agent-based modeling

FIN513 Advanced Financial Economic Modeling

The purpose of this course is studying the application of the Agent-Based Modeling to the financial market. Irrational behaviors in the financial market are examined by the team projects.

FIN514 Information economics

This course is designed to analyze the role of information in financial markets and in corporate finance. Students will study the issues of moral hazard and adverse selection due to information asymmetry, and explore those in financial environments.

FIN515 Money and Banking

This course is designed to help you prepare for careers in the central bank or in financial services industry where understanding economics of money and banking is crucial. To achieve the goal of this course effectively, we seek to bridge the gap between practitioners and academicians by applying theory to practice.

FIN516 Financial Economics

This course deals with asset pricing models based on a general equilibrium approach. The goal of this course is to understand the microfoundations of financial economics and fundamental pricing mechanism. The fundamentals are applied to study in depth the asset pricing models and the term structure of interest rates.

FIN531 Financial Information System

The main topics include basic concepts of financial management, decision support system for financial planning and the information system for financial institutions. Financial experts in the field are frequently invited to speak.

FIN532 Information Technology in Financial Service Industry

The purpose of this course is to understand the relationships among key components of information technology in financial service industry. This course covers internet banking, software development strategy and MIS organization.

FIN533 Computer Programming in Finance

This course provides a systematic introduction to the analysis and implementation of numerical methods used in financial engineering and risk management. The course uses EXCEL, VBA and Matlab.

FIN534 Introductory Financial Mathematics I

This course provides the basic mathematics for finance. Topics discussed in this course will include the vector and matrix, matrix-related calculus, matrix decomposition, eigen value and eigen vectors, and other linear algebra related mathematics used in finance..

FIN535 Introductory Financial Mathematics II

This provides the basic knowledge required to understand finance. Topics discussed in this class include the

basic concepts of functions, differentiation and integration, optimization without constraints, optimization with equality constraints, and optimization with inequality constraints.

FIN536 Financial Mathematics I

This course introduces the basic mathematics for financial engineering. The topics discussed in this course include the stochastic processes and stochastic calculus. Examples in financial engineering will also be presented.

FIN537 Financial Mathematics II

This course provides the mathematics for financial engineering. This course deals with the same topics discussed in Financial mathematics 1 at a more advanced level. The topics discussed in this course include the stochastic processes and stochastic calculus.

FIN538 Econometric Analysis for Finance

This course is designed to provide the framework to analyze the financial data using the econometric methods. This course is centered on the regression analysis and provides opportunity to practice the econometric analysis using the real financial data.

FIN539 Advanced Econometric Analysis for Finance

This course is designed to provide the framework to analyze the financial data using the advanced econometric methods. Topics covered in this course includes simultaneous equations, error correction models, vector autoregression, generalized method of moments, and limited dependent models.

FIN540 Applied Econometric Analysis

This course is designed to provide the framework to analyze and interpret the financial data using the econometric methods. Students will learn about how to use the econometric packages, and how to interpret the empirical results.

FIN541 Financial Time Series Analysis

This course is designed to provide the framework to analyze and interpret the financial time-series data using time-series models. Topics covered in this course will include the serial correlation analysis, ARIMA models, and Co-integration analysis.

FIN542 Advanced Financial Time Series Analysis

This course is designed to provide advance knowledge on the methods of financial time-series analyses. The topics covered in this course will include the state-space models, Markov regime switching model, GARCH, and VECM.

FIN543 Estimation of Financial Models

This course is designed to provide the framework to estimate financial models. Students will have chances to practice the various econometric methods to estimate financial models. GMM, MLE, and nonparametric estimation methods will be covered.

FIN544 Empirical methods in finance

This course is designed to provide the methods to empirically analyze financial models. Students will learn not only various empirical methods but also practice those methods using financial data.

FIN545 Simulation methods

Simulation is one of the most widely used methods in finance. This course is designed to teach various simulation methods in a finance framework, and apply the methods to various financial applications.

FIN601 Organization and Leadership

This course focuses on issues regarding organization and leadership in management of financial institutions.

FIN602 Evaluation and Incentives

This course focuses on issues regarding performance evaluation and incentives provision for efficient organization.

FIN603 Financial Marketing Management

This class is to deliver a body of knowledge applied to plan, implement, and control marketing activities of financial services in a buyer orientation. Its focus is on how to analyze the needs for financial products and services and allocate business resources to fulfill these needs.

FIN604 Business Strategies in Financial Service Industry

Financial institutions have some characteristics that manufacturing firms do not have. This course is designed to help understand the unique characteristics of financial service industry and to study the survival and differentiation strategies of financial institutions.

FIN605 Competitive Marketing Strategies of Financial Business

This class is an opportunity to learn how to allocate business resources in adaptation to environmental fluctuations in the financial industry. Substantial areas discussed are of environmental analyses, business portfolio models, organizational structures and cultures, and business processes.

FIN606 CRM in Financial Institutions

Based on the closed loop of CRM, this class is to deliver knowledge and skills needed to implement CRM strategies in financial institutions. Issues of organizational structures and cultures are addressed as they are concerned with the development of CRM strategies.

FIN607 Market-Oriented Design of Financial Products and Services

This class offers a variety of conceptual frameworks to understand consumers' needs for financial products and services. Then, it delivers knowledge and skills to analyze financial products and services and find an alternative to optimally satisfy such needs.

FIN608 Channel Management of Financial Products and Services

This class is to offer theories and cases concerning the development of channels to distribute and sell financial products and services. Major issues discussed are regarding the analysis of channel services, the organizational design of channel structures, and the implementation of channel organizations. In addition, legal issues of channel operations are addressed.

FIN609 Commercial Bank Management

This course is designed to help you prepare for careers in the banking industry where successful interactions with the financial markets are crucial. To achieve the goal of this course effectively, we seek to bridge the gap between practitioners and academicians by applying theory to practice. We first examine theory of interest rates and financial markets. Topics on the management of financial institutions are covered to maintain the managerial perspective.

FIN610 Principles of Insurance and Risk

This course focuses on issues regarding insurance and principles of risk sharing and transfers. This course studies law of large numbers, mutuality principle, risk aversion, and insurability.

FIN611 Insurance Organization Management

This course focuses on issues regarding management of insurance organizations. This course studies insurance organization, underwriting, pricing, asset and liability management, and insurance market organization.

Fin612 Investment Banking

This course is designed to help you as an executive to understand the fundamental functions of investment banks. Precisely, we look at how investment banks help firms to strategically raise funds to finance investment projects and in the process how investment banks make money.

FIN613 Monetary Policy and Financial Regulation

This course is designed to help you prepare for careers in the central bank or in financial services industry where understanding economics of money and banking is crucial. Students will learn about the effects of monetary policy on the macroeconomy and financial markets.

FIN614 Enterprise Risk Management

This course focuses on issues regarding total risks of an organizations including operating risks, financial and insurance risks, legal risks.

FIN615 Financial Statement Analysis I

Financial statements are the summary of performance of a firm, and provide useful information for investors to evaluate the firm. The objective of this course is to learn a framework to analyze financial statements and to apply it in specific decision contexts such as investment and performance evaluation of a firm.

FIN616 Financial Statement Analysis II

The objective of this course is to understand how accounting information is used for firm value evaluation and value creation. This course examines how key economic variables used for fundamental valuation and the financial variables derived from the financial analysis are used for value creation and value-based management.

FIN617 Advanced Corporate Financial Policy

This course teaches the essential theories in corporate finance, and studies the main issues of corporate finance. It covers the issues on IPOs, financial structure decisions, debt structure decisions, lease policy, dividend policy and mergers and acquisitions.

FIN618 Managerial Accounting I

This course studies basic issues on the concepts and principles of managerial accounting. In particular, this course studies cost concepts and behavior, cost-volume-profit analysis, product costing including activity based costing, variance analysis.

FIN619 Managerial Accounting II

This course studies how basic concepts examined in the Managerial Accounting I are used in actual decision making. The topics include relevant costing, activity based management, strategic cost management, pricing and customer profitability analysis, transfer pricing, performance evaluation, and Balanced Scorecard.

FIN620 Intermediate Accounting I

The primary goal of this course is to provide students with the knowledge and skills required to become sophisticated users of financial statements and their accompanying footnotes. The topics covered include receivables, inventories, long-lived assets, investment in securities including derivatives.

FIN621 Intermediate Accounting II

This course covers the income statement and related issues, accounting changes and error correction, accounting for lease, income tax and pension and postretirement benefits. Also, such issues as interim accounting reports and other contemporary accounting issues are covered.

FIN622 Behavioral Finance

This course introduces the behavioral approach to finance. This course will explore how market participants' behavior influences on the financing and investment behavior of firms and on financial markets.

FIN623 Financial Market Microstructure

This course discusses the market microstructure of financial markets. The topics in this course will include the price-formation process, order structure, market making process, information dissemination process, the role of market participants, information transmission across markets, and the impact of market microstructure on quotes and trades in financial markets.

FIN624 Corporate Governance

In this course, we look at this over-sighted area of finance: the relationship between corporate governance and firm value and shareholder wealth distribution. We mainly use the case study method to achieve this goal.

FIN625 Venture Capital Investments

In this course, we seek understand issues in venture capital investments. To achieve this goal, we overview the fundamental finance theories of risk-return relationships in investing start-up firms. Using the case study approach, we look at each issue including the exit strategies.

FIN626 Private Equity Investments

In this course, we seek understand issues in venture capital investments. To achieve this goal, we overview the fundamental finance theories of risk-return relationships in investing start-up firms. Finally, we then explore the valuation technique and examine the exiting strategy using the case study approach.

Fin627 Mergers and Acquisitions

This course is designed to help you as an executive to understand the fundamental functions of mergers and acquisitions in corporate decision making. To achieve the goal of this course effectively, we seek to bridge the gap between practitioners and academicians by applying theory to real world situations with case studies. Finally, issues continuously in the news and the subject of vigorous corporate financial policy debate will be discussed.

FIN628 Insurance analysis

This course focuses on quantitative issues regarding distribution of insurance risks, risk management and its regulations, and insurance pricing.

FIN629 Life and health insurance

This course focuses on issues regarding life insurance, health insurance and pension. This course studies

insurance products, their functions and roles.

FIN630 Property and casualty insurance

This course focuses on issues regarding property and casualty insurance. This course studies insurance products, their functions and roles.

FIN631 International Finance

This course extends the principles of finance to an international setting. Topics of the course include foreign exchange markets, international bond markets, determination and forecasting of the exchange rates, foreign exchange risk management and international portfolio investments.

Fin632 Cases in investment banking

This course will show the interaction between theories and practice in investment banking through case studies. Students are required to study and discuss cases actively.

Fin633 Case Study in Financial Institutions Management

In this course, students are actively examining case studies dealing with managerial issues of financial institutions such as commercial banks, insurance companies, and securities firms.

FIN641 Forward, Futures, and Swaps

Student will learn about the basic derivatives such as forward, futures and swap contracts in this course. The topics discussed in this course will include the concepts, pricing, design, and hedging of the forward, futures, and swap contracts.

FIN642 Options: Theory and practice

This course will provide the conceptual framework for understanding the option contracts and option markets. The topics discussed in this course will include the concepts, pricing, hedging, and investment strategies of options as well as option markets.

FIN643 Security Market Analysis

This course is designed to study the security markets where investors invest and firms raise their capital. This course covers the topics such as regulations, institutional characteristics, and the trading mechanisms in security markets.

FIN644 Analysis of Fixed Income Securities

This course will provide the basic knowledge on fixed income securities and their management. The topics discussed in this course will include the basic concepts of fixed income security management such as yield-to-maturity, forward rates, duration and convexity, and various investment strategies related to fixed income securities.

FIN645 Security Market Analysis and Trading Strategies

This course is designed to provide the methods of security analyses and asset management. The topics in this course will include the efficient market hypothesis, technical analyses, and fundamental analyses. Students will have opportunity to do simulated investment games.

FIN646 Portfolio management

This course is designed to explore the portfolio composition and management theoretically and practically. The topics in this course includes the mean-variance portfolio optimization, multi-period portfolio analysis and the evaluation of portfolio strategies.

FIN647 Asset Pricing Theory

This course is designed to examine various asset pricing models and their applicability in the real world. Topics in this course include the CAPM, APT, multi-beta equilibrium models, and intertemporal asset pricing model.

FIN648 Advanced Fixed Income Securities

This course is designed to examine advanced theories on fixed income securities. Topics in this course will include the analysis of the structure, pricing and risk management of recent fixed income securities.

FIN649 Numerical Methods in Finance

This course is designed to introduce numerical methods used to solve mathematical problems in finance. It covers various numerical methods to solve the valuation problem for derivative securities.

FIN650 Financial Market Risk management

This course will study the financial market risk management. The topics discussed in this course will include the definition of financial market risk, the measurement of financial market risk, and hedging the financial market risk.

FIN651 Credit Risk management

This course will study the credit risk management. The topics discussed in this course will include the definition of credit risk, the measurement of credit risk, and hedging the credit risk with various instruments.

FIN652 Operational risk Management

This course is designed to examine the various risks occurring in the operation process of financial institutions, and study the measurement and management of operational risks. Students will learn about the models regarding operational risks, and apply those models to the cases in the real world.

FIN653 Interest Rate Derivatives

This course is designed to provide a understanding of various models associated with the term structure of interest rates and interest rate derivatives. It will explore the theoretical and practical implications of the various term structure of interest rate models, and pricing and hedging of interest rate derivatives.

FIN654 Credit risk and credit derivatives

This course is designed to provide a understanding of various models associated with defaultable bonds and credit derivatives. It will explore the theoretical and practical implications of the various defaultable bond pricing models, and pricing and hedging of credit derivatives.

FIN655 Derivative Trading Strategies

This course is designed to explore the derivative trading strategies based on the knowledge of derivatives. It examines the arbitrage trading strategies between derivatives and their underlying assets as well as between derivatives, hedging strategies related to the investment in the underlying assets or derivatives, and some speculative trading strategies related to derivatives.

FIN656 Advance Derivative Securities

This course is designed to provide a deeper understanding of various issues associated with derivatives. It will explore the theoretical and practical implications of various models, trading strategies, and the institutional aspects of these derivatives and the activities of the major participants in them.

FIN657 Exotic options

This course is designed to study various exotic options. Students will learn about the structure, usage, pricing and hedging of exotic options such as barrier options, look-back options, Asian options, and Persian options.

FIN658 Modeling in Financial Engineering

This course is designed to provide the framework to model in financial engineering. Students will learn about the mathematics and modeling methods in financial engineering, and apply those to the area of option pricing theory, bond pricing theory, and risk management.

FIN659 Advanced Modeling in Financial Engineering

This course is designed to provide the knowledge and mathematics to understand the continuous-time models in finance. Students will learn about the optimal control theory, ICAPM, CCAPM and their applications to various financial issues.

Fin660 Real Estate Investments

In this course, we seek to understand issues in real estate investments. To achieve this goal, we overview the fundamental finance theories of risk-return relationships. Finally, we look at how regulation can affect the market structure and pricing strategy.

FIN661 KOSDAQ market

KOSDAQ is one of the important security markets, which enables firms with growth potentials to raise capital. This course will examine the regulations, institutional details, and trading systems in KOSDAQ as well as the stocks listed on KOSDAQ.

FIN662 Research methods in finance I

This course covers research methods to analyze the issues in financial engineering and various numerical and econometric methods to deal with derivative securities with complex structure and risk management issues.

FIN663 Research methods in finance II

This course provides research methods to analyze the issues in financial engineering. As a culminating experience, students are expected to work on an issue of choice for dissertation. A preliminary version of the dissertation is to be submitted, presented and evaluated as a term paper.

FIN664 Cases in Financial Engineering

This course deals with several cases in financial engineering and derivatives. Through the case analyses and term project in addition to the lectures, students are expected to develop insight regarding issues in financial engineering and derivatives.

FIN665 Cases in Risk Management

This course deals with several cases in risk management. Through the case analyses and term project in addition to the lectures, students are expected to develop insight regarding issues in risk management.

FIN666 Cases in Asset Management

This course deals with several cases in asset management. Through the case analyses and term project in addition to the lectures, students are expected to develop insight regarding issues in risk management.

FIN667 Research methods in finance case study I

Using case methodology, this course is designed to bridge the gap between practitioners and academicians by applying theory to practice. Through the case analyses and term project in addition to the lectures, students are expected to develop insight regarding various issues in finance.

FIN668 Research methods in finance case study II

Using case methodology, this course is designed to bridge the gap between practitioners and academicians by applying theory to practice. Through the active interaction with firms, students are expected to complete case report of their own.

FIN681 Chinese Financial Markets I

There is a growing need to understand Chinese financial markets due to the globalization of the world. This course is designed to provide the framework and institutional background knowledge of Chinese financial markets. Topics on Chinese stock market, bond market and derivatives market will be covered in the course.

FIN682 Japanese Financial Markets

There is a growing need to understand Japanese financial markets due to the globalization of the world. This course is designed to provide the framework and institutional background knowledge of Japanese financial markets. Topics on Japanese stock market, bond market and derivatives market will be covered in the course.

FIN683 International Financial Markets

There is a growing need to understand international financial markets due to the globalization of the world. This course is designed to provide the framework and institutional background knowledge of international financial markets. Topics on foreign exchange markets, eurocurrency markets, and international bond markets will be covered in the course.

FIN684 Chinese Financial Law

There is a growing need to understand Chinese financial laws and government environment. This course is designed to provide the framework and institutional background knowledge of Chinese laws related to financial activities.

FIN685 Northeast Asian Financial Law

There is a growing need to understand China & Japan's financial laws and government environment. This course is designed to provide the framework and institutional background knowledge of China & Japan's laws related to financial activities and Korean ones.

FIN686 International Financial Law

There is a growing need to understand international laws related to financial activities across countries. This course is designed to provide the framework and institutional background knowledge of international laws related to financial activities.

FIN687 Cases in East Asian Financial markets

This course examines the cases regarding East Asian financial markets, and studies the various financial applications in East Asian financial markets.

FIN688 China's Economy and Merchants Group

This course deals with special or related issues regarding China's rapid socio-economic development, particularly after her reform & open policy. This course tries to find mutually beneficial alternatives between Korea and China by studying merchants group, overseas Chinese & Hakka, Zhongguancun and science &

technology, etc.

FIN689 Chinese Financial Markets II

There is a growing need to understand Chinese financial markets due to the globalization of the world. This course is designed to provide the framework and institutional background knowledge of Chinese financial markets. China's securities/bond and insurance industries will be covered.

FIN690 New Emerging Markets in Developing Economies and Global Cooperation)

Recent rapid economic growth of China, Vietnam, Kazakhstan is remarkable, and their potential financial strength seems to be big. This course provides seeking a win-win strategy and ways to mutually beneficial alternative, which may lead Korea to one of the Northeast Asian Financial hubs including discussion on special or current issues of East Asian financial markets.

FIN701 Special topics in econometric analysis I

This course focuses on special or current issues regarding econometrics.

FIN702 Special topics in econometric analysis II

This course focuses on special or current issues regarding econometrics.

FIN703 Special topics in econometric analysis III

This course focuses on special or current issues regarding econometrics.

FIN704 Special topics in accounting I

This course focuses on special or current issues regarding corporate finance and investment banking.

FIN705 Special topics in accounting II

This course focuses on special or current issues regarding corporate finance and investment banking.

FIN706 Special topics in accounting III

This course focuses on special or current issues regarding corporate finance and investment banking.

FIN707 Special topics in insurance I

This course focuses on special or current issues regarding insurance and its related markets.

FIN708 Special topics in insurance II

This course focuses on special or current issues regarding insurance and its related markets.

FIN709 Special topics in insurance III

This course focuses on special or current issues regarding insurance and its related markets.

FIN710 Special topics in accounting I

This course focuses on special or current issues regarding accounting.

FIN711 Special topics in accounting II

This course focuses on special or current issues regarding accounting.

FIN712 Special topics in accounting III

This course focuses on special or current issues regarding accounting.

FIN713 Special topics in financial institutions management I

This course focuses on special or current issues regarding financial institutions management.

FIN714 Special topics in financial institutions management II

This course focuses on special or current issues regarding financial institutions management.

FIN715 Special topics in financial institutions management III

This course focuses on special or current issues regarding financial institutions management.

FIN716 Special Topics in Financial Engineering I

This course is offered as needed to cover methodology and techniques to analyze important new issues that arise in the field of financial engineering.

FIN717 Special Topics in Financial Engineering II

This course is offered as needed to cover methodology and techniques to analyze important new issues that arise in the field of financial engineering.

FIN718 Special Topics in Financial Engineering III

This course is offered as needed to cover methodology and techniques to analyze important new issues that arise in the field of financial engineering.

FIN719 Special Topics in Risk Management I

This course is offered to cover the methodology and techniques to analyze important new issues that arise in the field of risk management.

FIN720 Special Topics in Risk Management II

This course is offered to cover the methodology and techniques to analyze important new issues that arise in the field of risk management.

FIN721 Special Topics in Risk Management III

This course is offered to cover the methodology and techniques to analyze important new issues that arise in the field of risk management.

FIN722 Special topics in asset management I

This course focuses on special or current issues regarding asset management.

FIN723 Special topics in asset management II

This course focuses on special or current issues regarding asset management.

FIN724 Special topics in asset management III

This course focuses on special or current issues regarding asset management.

FIN725 Special topics in East Asian Financial markets I

This course focuses on special or current issues regarding East Asian financial markets.

FIN726 Special topics in East Asian Financial markets II

This course focuses on special or current issues regarding East Asian financial markets.

FIN727 Special topics in East Asian Financial markets III

This course focuses on special or current issues regarding East Asian financial markets.

FIN961 Field Application Project

This course is designed to provide students with realistic field experience by their participation in special projects in the financial services industry. Students are expected to apply theories and practices they have learned from other courses, to have hands-on experiences, and to build a personal network with other industry experts during the course.