COURSE DESCRIPTION FOR MASTER OF FINANCE (MFIN) COURSES

I. Fundamental Core Courses:

MFIN7007 Economics for financial analysis (6 credits)
This module provides the foundation in economics that is essential in financial analysis. The major topics include microeconomics, macroeconomics and international economics, consumer choice, costs and the supply of goods and services, competitive and market structure, the role of government in the economy, national income accounting, business cycles, aggregate demand/supply, fiscal and monetary policies, the level and structure of interest rates, the role of expectations in economies analysis, economic analysis, economic growth, comparative advantages and international trade, international finance and foreign exchange markets. Appropriate references will be made to current issues in Hong Kong, the region and the international economy.

MFIN7001 Financial statement analysis and business ethical standards (6 credits)
This course provides an introduction to the financial statements and financial reporting process from a user’s perspective. The course focuses on fundamental accounting concepts and principles as well as techniques related to financial statements analysis. Ethical and professional standards that persons engaged in the professional practice of financial analysis and investment management should know, understand, and apply are also covered.

MFIN7005 Corporate finance and asset valuation (6 credits)
This course aims to provide candidates with understanding of (i) fundamental approaches for equity valuation, (ii) fundamental approaches for valuation of fixed income securities, (iii) the knowledge about corporate finance and behavioral approaches in asset valuation, and (iv) the recent development of valuation techniques. On the theoretical side, this course introduces fundamental knowledge for asset valuation, investment strategies, and portfolio management. On the practical side, this course covers recent topics that are related to the asset valuation techniques used in both Hong Kong and United States. Some projects about asset valuation are specially designed to let candidates apply the theoretical knowledge into practice. This course is highly recommended for candidates who intend to pursue a career or further studies in equity valuation and securities analysis. Certainly, the knowledge from this course will also be very useful when you make your own personal investment decision.

MFIN7002 Investment analysis and portfolio management (6 credits)
This course aims to provide candidates with understanding of (i) fundamental knowledge for asset valuation, (ii) portfolio management techniques for risk management and speculation, (iii) investment strategies adopted in financial market, and (iv) the recent development of portfolio management tools and investment strategies. On the theoretical side, this course introduces fundamental knowledge for asset pricing, investment strategies, and portfolio management. On the practical side, this course covers recent topics that are related to the investment strategies and portfolio management in both Hong Kong and United States. Some projects about portfolio management and asset valuation are specially designed to let candidates apply the theoretical knowledge into practice. This course is highly recommended for candidates who intend to pursue a career or further studies in investment strategies and portfolio management. Of course, the knowledge will also be very useful when candidates make their own personal investment decision.

II. Advanced Core Courses:

MFIN6003 Derivative securities (6 credits)
Derivatives have become a popular hedging and investment tool over the last few decades and derivatives concept are required for every advanced finance topic. This course provides candidates with a framework (1) to understand the fundamental concepts of derivative products (forward and futures, options, swaps, and basic structured products), (2) to develop the necessary skills used in valuing derivative contracts, and (3) to understand a wide variety of issues related to risk management and investment decisions using derivatives. The course intends to provide a solid foundation for other
advanced courses of the program such as mathematical finance, risk management, fixed income securities, and financial engineering.

**MFIN7003 Mathematical techniques in finance (6 credits)**
There are three main approaches to mathematical finance: the tree approach, the martingale approach and the partial differential equation approach. This course will present these three approaches and their applications to pricing and hedging financial derivatives. The corresponding numerical methods of the three approaches are lattice method, Monte Carlo simulation method, and finite difference method. Along the lectures, necessary mathematics, such as calculus, partial differential equation, applied probability and stochastic calculus will also be reviewed. After taking this course, candidates should be able to fully understand no-arbitrage theory, risk-neutral probability, martingale, and Black-Scholes equation. The purpose of this course is to lay down a solid mathematical foundation for candidates to learn more advanced topics in financial engineering and risk management, such as exotic options, interest rate derivatives and credit risk models.
*Prerequisite: MFIN6003 Derivative Securities*

**MFIN6002 Spreadsheet modelling in finance (6 credits)**
This course is intended to introduce spreadsheet (MS Excel) as a financial modelling tool and understand its capabilities and limitations. It is designed to teach candidates to apply Visual Basic for Applications (VBA) to automate spreadsheet applications and extend the functionality of the spreadsheet. Numerical derivative pricing by implementing models in VBA will be illustrated. Examples include Black-Scholes formula, Greeks Parameters, Binomial Tree and Monte Carlo Methods Statistical computations with application to Risk Management will also be demonstrated. This course will also explore to optimise the computational power of Excel through the C API.
*Prerequisite: MFIN7003 Mathematical Techniques in Finance*

**MFIN7012 Fixed income securities and interest rate modelling (6 credits)**
This course introduces various state of the art techniques in modeling fixed income securities. In particular, the course starts with the discount factor approach in pricing all kinds of bonds. Then it focuses on modeling the discount factors. Models are introduced in two major parts. First, the course emphasizes discrete-time models based on binomial trees in order to understand the economic insight of the risk-neutral pricing. Second, extensions to continuous-time models are also discussed in detail. Calibration and implementation of the models will be studied. Other related topics may include interest rate risk management, interest rate derivatives, and monetary policy.
*Prerequisite: MFIN7005 Corporate Finance and Asset Valuation and MFIN6002 Spreadsheet Modelling in Finance*

**III. Stream Core Courses**

**Risk Management stream**

**MFIN6012 Risk management (capstone course) (6 credits)**
The objective of this course is to introduce concepts, techniques and framework for quantitative risk management at financial institutions. Financial firms, with their complicated list of positions in a mixture of instruments, are exposed to various sources of financial risk. This class focuses mainly on market risk, the risk of unexpected changes in prices and rates. The first part of the course introduces basic concepts in risk management and builds the toolkit for measuring risk quantitatively. The second part of the course is devoted to studying the widely accepted Value at Risk (VAR) systems, including calculations, back testing and flaws of VAR. The course also touches on other aspects of financial risk such as liquidity risk, credit risk and operational risk.
*Prerequisite: MFIN6002 Spreadsheet Modelling in Finance*

**MFIN7011 Credit risk (6 credits)**
A comprehensive analysis of credit risk measurement and credit derivatives. Topics include credit events, expected default frequency, expected exposure, loss given default, default correlation, KMV, Credit Metrics, credit ratings performance and migration, total return swaps, credit default swaps,
basket default swaps, credit spread forwards and options, exotic credit derivatives, credit-linked notes, collateralised debt obligations, Basel II and SME lending.

Prerequisite: MFIN7012 Fixed Income Securities and Interest Rate Modelling

**Financial Engineering stream**

MFIN7009 Financial engineering (capstone course) (6 credits)
Financial engineering is the process of constructing new instruments by using bonds and individual derivatives such as forwards, calls, puts, and common exotic options as basic building blocks. The process involves designing, pricing and managing the instruments. In this course, we anatomize a few popular structured products. Some of them have been traded in the Chicago Board Options Exchange, and Hong Kong Exchanges and Clearing Limited. And others, such as equity-linked high yield notes and capital guarantee funds are sold by the commercial banks in Hong Kong. Then how to price these products by studying the price of the embedded exotic options will be discussed. The risk exposure of the retail investors and risk management for the commercial banks will be studied. Some topics on the market for volatility trading, recent development of option-pricing models and global financial crisis will also be discussed.

Prerequisite: MFIN7003 Mathematical Techniques in Finance

MFIN7017 Advanced option pricing models (6 credits)
This course brings together the practical and theoretical knowledge taught in the other derivatives and risk management courses in the MFin curriculum to introduce some of the state-of-the-art option pricing models. The course dwells on the original insights of various authors for exotic option pricing and option pricing models with volatility smiles. In addition to the plain-vanilla European option model, the course discusses the continuous and discrete barrier, lookback, Asian, American, excursion option pricing models. It also discusses the jumps and stochastic volatility option pricing models, including the latest option pricing models under Levy processes. Although this course highlights the theoretical and technical motivation of the various models, its delivery requires some hands-on knowledge of MatLab programming. Candidates finished this course will be conversant to the latest development and technology in option pricing.

Prerequisite: MFIN7003 Mathematical Techniques in Finance

**Corporate Finance stream**

MFIN7026 Advanced corporate finance (capstone course) (6 credits)
This course is aimed to give candidates a solid understanding of theoretical and empirical contributions of modern corporate finance. Major topics of corporate finance, including valuation, equity offerings, financial leverage, payout policy, and mergers and acquisitions, will be extensively discussed. The course offers candidates an opportunity to appreciate how corporate managers apply financial concepts and theories to managing real business and how financial decisions generate significant impact on firm value. After taking the course, candidates are expected to possess the ability to logically evaluate a firm’s financial decisions and later resolve financial issues in real world.

MFIN7010 Mergers, acquisitions and corporate restructuring (6 credits)
This course is designed to develop a solid understanding of commonly discussed and applied issues in merger and acquisitions (M&As). The topics covered in this course include the M&A process, methods of valuing a target firm, valuing synergies, the form of payment and financing, assessing the highly levered transaction, governance in M&A, and M&A negotiation. Cases in M&As will be used in the discussion of the various topics. By going through analyses and discussions of real-life M&As, candidates will gain experiences in the application of financial theory and techniques to evaluate a M&A decisions and transactions.

**Financial Technology stream**

MFIN7035 Big data in finance (capstone course) (6 credits)
This course provides students a foundation in managing and analyzing large datasets for applications
in finance. The first part of the course focuses on building skills – data custodianship and performance computing. Through practice on real-world financial datasets, students will learn methods used to warehouse and retrieve data for high-performance statistical computing. The course then turns to analytical methods with a focus on demonstrating these methods on real-data from various contexts in finance. Methods covered include statistical modeling and inference, machine learning, textual analysis, classification and alternative datasets. Problem sets and projects will be the primary mode of learning. Course learning will be supplemented with exposure to industry speakers from the local financial industry.

Prerequisite: MFIN7002 Investment Analysis and Portfolio Management

MFIN7037 Quantitative trading (6 credits)
This course provides a foundation for advanced quantitative trading in financial markets. The course has two parts. First, the course reviews stylized facts and methods used for time-series predictability, cross-sectional asset pricing and strategy performance evaluation. The second part of the course uses these tools to study recent advances in investment strategies sourcing from academic and practitioner literature. For example, the course will discuss new theories on risk premia, intermediation-based asset pricing, and quantifiable soft information and alternative data. The primary method of learning will be a combination of problem sets and projects. Subject to availability, learning will be supplemented with exposure to industry speakers from the local financial industry.

Prerequisite: MFIN7002 Investment Analysis and Portfolio Management

IV. Electives Courses (choose any 2) (6 credits each):

MFIN6015 Trading workshop
This course covers financial data and software tools as well as the operational side of derivatives trading in a trading lab environment. Candidates will learn how the major systems such as Reuters and Bloomberg work in trading. Candidates will be shown the manner in which transactions are executed, either across telephone lines, telex or electronic trading devices, and the manner in which systems are used to help dealers update their trading blotters, and how positions are updated and risk monitored. Candidates will also learn the pre-settlement stage of each transaction and the settlement issues, including back-office support in accounting and handling of counter-party risk.

MFIN7004 Financial services regulations
This course provides candidates with the legal background necessary to comply with the regulatory requirements in banking and finance. It covers the legal aspects of corporate governance, the legal framework of banking and finance, and financial products, including derivatives. This course also provides candidates with background on market access in financial services, as China embarks on liberalisation of its financial markets as a member of the WTO.

MFIN7006 Macroeconomic analysis and forecasting
Divided into two parts, the first half deals with the theory and practice of modern macroeconomic analysis. The design of the course aims at making close contact with current macroeconomic events and providing an integrated view of macroeconomics. To achieve such goals, the introduction of a unified model that concentrates on the implications of equilibrium conditions in three sets of markets: the goods market, financial markets, and the labour market. A variety of applications and examples will be offered to show how economic concepts can be put to work in explaining real-world issues. The second half of the course concerns the forecasting of economic time-series, and focuses on techniques and models that are routinely used in applied work. Topics include ARIMA models, trends and seasonality, non-linearity, ARCH and GARCH models, multivariate time-series and VAR models. As part of the course requirement, candidates are expected to generate and evaluate their own forecasts by using appropriate time-series models that are supported by key features of the data.

MFIN7008 Advanced mathematical finance
This course introduces candidates to the techniques of quantitative finance using MATLAB. The main topic includes the introduction to MATLAB, time-series analysis of financial data, simulation,
optimization, back testing of asset allocation and trading strategies, introduction to financial databases and finite difference method. The course will illustrate the techniques with a lot of examples with real financial data. After taking this course, candidates should be able to implement the techniques in various financial applications.

**MFIN7013 Seminar in commercial banking and real estate financing**

This course covers bank management techniques that include asset and liability management, liquidity and reserve management, credit analysis, loan pricing and off-balance-sheet banking, as well as regulatory issues of commercial banks. It also discusses issues related to mortgage loan products and how real estate risks may affect the market value of mortgages.

**MFIN7014 Fund management and alternative investments**

Hedge funds are one of the fastest growing sectors of asset management. This course studies the styles of hedge funds and management strategies from an investment decision-making perspective. Topics covered in this module include environment and micro-structure of capital market, investment strategies, quantitative tools, derivative products, investment performance evaluation and discussions of some hedge funds failures. Special attention is given to various practical investment strategies and their risks, including equity selection techniques, market-neutral portfolio constructions, arbitrage strategies, emerging market investment, shortselling problems, etc.

**MFIN7015 Behavioral finance**

Behavioral finance uses insights from psychology to understand how biases, heuristics, framing and emotions influences the decisions of individual and professional investors, markets and managers. It describes how and why these suboptimal decisions might deviate from those predicted by traditional financial or economic theory. The course also shows why arbitrageurs such as hedge funds cannot correct but instead choose to ride on the misbehavior and mispricing. The course will explore the implications of investor psychology and limitation to arbitrage in the individual trading behaviors, aggregate stock market and the cross-section of average returns, and corporate finance. How insights of behavioral finance complement the traditional finance paradigm will be examined, so that candidates will gain an understanding of how individuals and institutions actually make financial decisions (descriptive) and guidance on how to improve financial decision making (prescriptive) in themselves and others.

**MFIN7016 Real options and dynamic corporate finance**

A real option is a right—not an obligation—to take an action on an underlying real asset. The action may involve, for example, abandoning, expanding, or contracting a project or even deferring the decision until a later time. Real options analysis (ROA) is a tool that helps to quantify the value of a real option. This course provides a synthesis of modern asset pricing and corporate finance via the framework of ROA. The course compares and contrasts ROA with the traditional tools of valuation. The benefits and limitations of ROA in terms of practical applications are also discussed.

**MFIN7018 Special topics in finance: market microstructure**

This course examines the effects of market designs and trading mechanisms on various dimensions of trading quality. Its main objective is to help candidates to understand how markets work, and how governments and exchanges regulate them. Candidates will learn who makes market liquid; why some traders consistently profit from trading while others lose; and how trading rules/mechanisms affect price efficiency, liquidity and trading profits. With this knowledge, they can improve their trading strategies. If candidates are regulator or exchange officials, this knowledge will help them to design better markets. This course is also practical and covers many realistic trading mechanisms around the world. To develop candidates’ ability to apply theories into practices, this course covers several contemporary issues on market microstructure.

**MFIN7019 Applications of derivatives in financing and risk management**

One of the key responsibilities of a CFO or CIO (chief investment officer) is to secure low cost funding for capex, acquisition or leveraging an investment. Reduction in funding cost can be achieved through strong credit standing, negotiation with banks or offering of security packages to
lenders. With appropriate use of derivatives, not only can CFO/CIOs often further reduce their funding cost but they can also tap more sources of funding. Globalization of financial markets allows capital to flow easily across borders, thus allowing borrowers to tap offshore funding. But offshore funding is often denominated in foreign currency which then requires the use of derivatives to swap it into the desired currency. In this course, candidates study the use derivatives in financing and liability risk management. Besides getting an overview of the various forms of financing current available to corporations and financial institutions, candidates will also learn how to take advantage of the on- and offshore funding price gap in Asia and hedging a company’s risk exposures to interest rate and currency movements. In addition, it will reinforce their derivatives knowledge acquired in other courses through case studies and recent applications as seen by financial market.

Prerequisite: MFIN6003 Derivative Securities

MFIN7021 Corporate financial and risk management
This course covers a specific subset of topics in corporate finance including risk management, hedging, capital structure, and liquidity management. The basic idea of the course is that all corporate financial decision-making is some form of risk management. They are centered on notions of asset liability matching and should be well aligned with each other and with management and capital market expectations. The objective of the course is to explain the theory of corporate risk management and to demonstrate some of its real-world applications. In particular, the course will describe a 4-step corporate risk management process which includes defining a consistent risk strategy; quantifying market risk exposures; establishing an efficient benchmark and implementing risk strategies. It will also touch upon some recent developments in derivative accounting and their implications for corporate hedging.

MFIN7022 Risk management for insurance companies and financial conglomerates
This course offers latest developments in the theory and practice of risk measurement and management in the areas of (i) life insurance, (ii) property-casualty insurance, (iii) natural catastrophic risks, and, (iv) commodity price risk.

MFIN7023 Advanced interest rate models
This course covers advanced topics in interest rate modeling and builds on material covered in earlier derivatives and mathematical finance courses. The course integrates theory and practice and focuses on the methods and models used by financial institutions to value interest-rate products. These include spot and forward rate models such as the Hull-White, HJM and the LIBOR market models and their extensions (displaced diffusion, CEV, stochastic volatility) and their calibration to market caps and swaptions. Important theoretical material needed to understand and extend these models is also be integrated into the course (e.g. forward measure, change of numeraire/measure).

Prerequisite: Fixed Income Securities and Interest Rate Modelling

MFIN7024 Financial engineering in practice
This course is designed to provide a holistic view of financial engineering. The course will introduce the candidates to the whole work flow of product design, pricing, packaging and post-execution management. The emphasis is on real life practical concerns and on financial markets in Asia region. The course aims to provide a comprehensive and consistent view of the various underlying financial assets and their characteristics. It emphasizes the importance of a client-oriented engineering process and aim to illustrate the characteristics of various client segments with different investment and hedging needs. As part of the course, candidates are introduced to several financial products such as FX carry strategy and commodity derivatives etc. After course completion, a candidate should have a better understanding not only of the process of financial engineering but also of how financial engineering fits into the machinery of a modern investment bank.

MFIN7025 Entrepreneurship in finance: hedge funds, private equity and venture capital
This course provides students with the foundations and practical knowledge enabling them to launch and manage their own entrepreneurial venture including a hedge fund, private equity, venture capital or asset management firm. Taught as a combination of practical classes and guest lectures by industry professionals, the course covers the entire fund and business launch spectrum including fund
structuring, investor capital raising, investor due diligence, regulatory, tax, governance, fund terms, private placement regulations, market trading rules, service provider selection, counterparty selection, employment matters, real estate, technology, operations, etc. The course also covers the investor landscape and investor lifecycle from early stage investors to institutional capital raising from global family offices, fund of funds, endowments, private banks and pension funds. We also cover the ongoing management and deal making of such funds from angel and venture capital early investments to private equity deals and exits. The course also discusses the global trends and industry institutional best practices, the customs and usage in the industry as well as some of the future trends, including FinTech and cybersecurity, and their impact on the industry. This is a very practical course with a heavy emphasis on the latest industry trends and best practices rather than theoretical concepts.

MFIN7027 Global investing
The global financial market is flat. International financial markets have experienced an explosive growth in the past two decades. Financial innovations, deregulation of national markets, the rise of emerging markets and the massive increase in international assets held by governments have fuelled a global liquidity wave and opened new avenues for international investments. At the same time, the speed and depth of the global contagion experienced in the wake of the US subprime crisis has underscored the financial markets/products' interconnectedness. The purpose of this seminar would be to offer a framework for the analysis of international investment decisions. The seminar will extend the standard investments theories and products to a global setting through a series of introductory lectures, but the focus will be hands-on interaction with the candidates through case studies and analysis of materials in class.

MFIN7028 Advanced fund management
This course will provide insights into key aspects of fund management, with a focus on investment strategies. Much of the course will be taught using a case-study approach, often relying on the experience of the faculty and their guest speakers. The first part of the course will start with a quick recap of investment principles leading to a discussion of fund management and delving into the current issues in the industry. Alternative investments will then be introduced, including hedge funds, private equity and real estate. The course will employ case studies from thereon to illustrate some of these issues with a particular focus on investment strategies. The second part of the course will pick up with an overview of the business side of fund management, highlighting the key issues faced by fund managers outside of their portfolios. An overview of selected investment strategies will be given, with an emphasis on the distinction between strategies pursuing market inefficiencies and strategies pursuing directional bets. The rest of the course will feature case studies adopting global macro, long-short equity, and fixed income strategies, and discussions highlighting the impact of corporate governance on the investment decision.

MFIN7029 Asian financial markets
This course gives candidates an overview of Asian financial markets, their latest development and future trends so that candidates can better prepare themselves for building their career in finance in the region. It consists of company visits, executive talks/seminars, training, networking and/or cultural activities.

MFIN7030 Current topics in finance
This is a special course that deals with various current topics in finance. Topics covered may vary from year to year, depending on the research interests of the instructor.

MFIN7031 Introduction to FinTech and its impact on the future of banking and finance
The world of global finance, banking and financial services is changing rapidly with the emergence of start-up financial technologies, commonly referred to as FinTech that may disrupt the status quo. Taught as a series of practical courses and guest lectures by industry entrepreneurs and professionals, the course covers the main pillars of the FinTech start-up ecosystem in Asia, including peer to peer lending platforms, internet finance, online finance, bitcoin, digital currencies, digital payments, big data, cybersecurity, cryptography, etc and their practical impact on global banking and finance. This course will provide students with the latest empowering and practical knowledge on FinTech enabling
them to understand some of the FinTech changes taking place currently in the financial services industry and, most importantly, the trends that will impact the industry in the future. This is a very practical course with a heavy emphasis on guest lectures on the latest industry trends and best practices by industry experts and entrepreneurs rather than theoretical concepts.

**MFIN7032 Equity valuation and investment management**

This course aims to provide students with a practical approach to equity valuation and investing. They will learn how to apply the key concepts, techniques and tools used by market practitioners in making real world investment decisions. Topics include: identifying sources of value, core valuation techniques - discounted cash flow, multiples analysis of comparable companies, real options valuation, and other valuation methods commonly used by practitioners; an overview of the asset management industry; the fundamental assumptions and approaches to value investing; risk management in the investment process.

**MFIN7033 Advanced financial programming and databases**

This course provides students a foundation in managing and analyzing financial datasets as well as other datasets. The first part of the course focuses on building skills – data manipulation using programming languages. The second part introduces various financial databases. Through practice on real-world financial datasets, students will learn methods used to warehouse and retrieve data for statistical computing. The course then turns to analytical methods with a focus on demonstrating these methods on real-data from various contexts in finance. Methods covered include statistical modeling and inference, machine learning, textual analysis, classification and alternative datasets. Problem sets and projects will be the primary mode of learning. Course learning will be supplemented with exposure to industry speakers from the local financial industry. 

*Prerequisite: MFIN7002 Investment Analysis and Portfolio Management*

**MFIN7034 Machine learning and artificial intelligence in finance**

Machine learning and artificial intelligence are the apex technologies of the information era. These methods are getting increasingly popular in the financial market. This course provides students the fundamental models and methods of machine learning and apply them to solve real-world financial problems. The topics include regression, classification, clustering methods, model selection, topic modeling and policy search. The first part of the course focuses on supervised learning techniques for regression and classification. The second part of the course covers unsupervised learning techniques for clustering and matrix factorization. The third part of the course covers reinforcement learning algorithm. The last part provides the fundamental concepts of artificial intelligence and its implications. The course provides introductions to the latest datasets in financial markets and practices applying learning algorithms to these datasets in a variety of topics. The primary mode of learning is based on assignments and projects.

**MFIN7036 Natural language processing and text analytics**

This course covers the main elements of natural language processing (NLP), text analytics, and text mining, providing students with a foundation in collecting, managing, and analyzing textual data. This course consists of three parts. In the first part, we work with real-world textual datasets to obtain proficiency in collecting, importing, organizing, and cleaning textual data. Among others, we cover web scraping, textual corpora, text processing, tokenization, stemming, and stop word removal. In the second part we delve into a more detailed analysis of NLP, text analytics, and machine learning. For instance, we examine bag-of-words, word weighting schemes, document classification, document clustering, sentiment analysis, and topic models. The third part consists of summarizing, displaying, and visualizing results obtained from NLP and text analytics for applications in finance.

**MFIN7038 Financial econometrics**

This course intends to be a highly applied one. The knowledge of econometrics that has immediate applications in finance will be imparted to candidates. This course is not a pure econometrics theory course, nor is it a course to exhaust financial applications of econometrics. It is designed to equip candidates with knowledge of relevant econometric theories and the ability to apply such knowledge to several finance models. Candidates are required to do computer exercises to implement relevant
econometric techniques during the course. Upon completing the course, candidates are expected to appreciate usual practical applications of econometrics in finance and carry out their own empirical investigations. The course should help candidates gain access to more advanced topics if they so wish.

**MFIN7039 Asset-backed securities**
This course extends the study of fixed income and credit risk to focus on mortgage products, asset-backed securities, and other debt market instruments.

**MFIN7040 Business ethics and corporate social responsibility**
This course aims to enhance awareness of ethical issues regarding international corporate decision-making, and provides candidates with business strategies and frameworks to deal with ethical problems. It starts with an introduction of concepts, including corporate social responsibility and moral decision making process, and then discusses various ethical issues related to the global business system, international management strategies, technology, external and internal stakeholders, and corporate governance.

**MFIN7041 China capital markets**
This course introduces the history, structure, and operating system of China’s capital markets. In the context of financial market globalization, the discussion of this course will focus on Chinese regulatory policies, institutional reform of markets, and public and private market investments. Historical trends will be analyzed together with recent development, providing insights from practical experiences in the markets. It will discuss China’s gradual shift towards a capital market-based financial system and policy issues faced by the Chinese governments during the process of multi-level capital market development.

**MFIN7042 Financial data analysis and decision-making**
This course provides an analytical framework to evaluate key problems in a structured approach and tools to manage uncertainty in business process. From this course, candidates learn the “language” of uncertainty using concepts in elementary probability, the procedure of framing decision-making in an uncertain environment, and the statistical methods for making inferences and decisions on the basis of limited information.

**MFIN7043 Private banking and wealth management**
This course looks at the fundamentals of private banking and wealth management. Topics covered include the market segmentation and key drivers of the industry, the different business models used by major market players, the basic analytical tools for asset allocations and wealth planning, and the various wealth management products (with related risk/return profiles) and other services that are offered to High Net Worth (HNW) clients. The course intends to provide a conceptual and practical approach to domestic and international wealth management for market practitioners, HNW individuals and families, and other professionals.

**MFIN7044 Real estate finance**
This course provides a broad introduction to real estate with a focus on financing issues. Basic project evaluation, financing strategies, asset-backed securities, methods of valuation, REIT modeling and capital markets issues related to real estate are covered. No prior knowledge of the industry is required, but candidates are expected to acquire working knowledge of real estate markets.

**MFIN7045 Seminar on the perspectives of financial markets and corporate policies**
This course provides in-depth discussions on perspectives of financial markets and corporate policies.

**MFIN7046 Financing and leasing**
This course focuses on valuation and financing issues of project investment of enterprises, with an emphasis on financing strategy. The objective of this course is to guide candidates to think innovatively about capital management and utilize various financing channels. The course will also introduce the framework and practice of leasing, and the role of leasing as a way of financing in a company’s financial management.