curities Industry Supervision Law, the Insurance Industry Supervision Law, market access, day-to-day operations, withdrawal from the market and regulatory means or methods for other financial institutions.

ZX1629 金融风险管理

学时：36 学分：2

【面向对象】非投资学专业、非金融工程专业

【先修课程】概率论与数理统计、货币金融学（或金融学、金融学概论）、商业银行管理

【课程简介】本课程基于金融风险的类型和特点，系统介绍金融风险管理的技术和框架。具体内容包括：金融风险的种类、风险管理的方法以及金融行业监控风险的历史沿革以及金融风险的基础理论、金融风险管理的基本框架与原理、金融风险的分类管理、风险管理与资本管理、风险管理与绩效评估等。

ZX1629 Financial Risk Management

Hours：36 Credit(s)：2

【 Learner-oriented 】 Non-Investment Major, Non-Financial Engineering Major

【Pre-requisite(s)】Probability and Mathematical Statistics, Finance or Introduction to Finance, and Commercial Bank Management

【Course Introduction】Based on the types and characters of financial risk, the course introduces the methods and structures of financial risk management. The contents of this course include: 1) classification of financial risk, methods of risk management, regulation history of financial risk, and fundamental theory of financial risk; 2) basic framework and principle of financial risk management and 3) classified management of financial risk, risk management and capital management, risk management and performance evaluation.

ZX1630 金融工程发展前沿

学时：36 学分：2

【面向对象】金融工程专业

【先修课程】数学分析、计量经济学、金融风险定量分析、金融工程学

【课程简介】本课程主要讲授前沿的金融工程理论和数理分析、统计方法以及IT与网络技术、优化技术、仿真技术等前沿技术，对金融问题给予创造性的解决的新进展，包括创新型金融工具与金融手段的设计、开发与实施的介绍，如：量化投资、程序化交易、高频交易、奇异期权等。

ZX1630 Frontier of Financial Engineering

Hours：36 Credit(s)：2

【Learner-oriented】Financial Engineering Major

【Pre-requisite(s)】Mathematics Analysis, Econometrics, Quantitative Analysis of Financial Risk, Financial engineering

【Course Introduction】The course is taught: the new progress of applying the latest financial engineering theories and cutting-edge technologies, such as mathematical analysis, statistical methods, and IT and network technologies, optimization, simulation technology, to creatively solving the financial problems, Including the introduction of the designing , developing and implementing of innovative financial instruments and financial instruments, such as: quantitative investment, program trading, high frequency trading, exotic options and so on.

ZX1631 金融工程概论

学时：54 学分：3

【面向对象】非投资学专业、非金融工程专业、非金融学专业

【先修课程】概率论与数理统计、金融学（或金融学概论、货币金融学）、证券投资学

【课程简介】本课程系统讲授金融工程的理论和应用知识以及衍生金融产品定价的课程。主要内容有：金融工程概述，远期、期货、互换、期权四种基础衍生品，期权定价模型，金融衍生产品在金融风险管理中的应用。

ZX1631 Introduction to Financial Engineering

Hours：54 Credit(s)：3

【 Learner-oriented 】 Non-Investment Major, Non-Financial Engineering Major, Non-Finance Major

【Pre-requisite(s)】Probability Theory and Quantitative Statistics，Finance or Introduction to Finance, and Securities Investment

【Course Introduction】This course systematically introduces the financial engineering theory, application of knowledge and the derivative financial products pricing. The contents of the course include: an outline of financial engineering; four fundamental derivative products including forward, future, exchange and option; option pricing model; the application of financial derivative products in financial risk management.

ZX1632 金融机构信用管理

学时：36 学分：2

【面向对象】信用管理专业

【先修课程】金融学、商业银行管理学

【课程简介】本课程主要介绍各类金融机构所面临的各类信用风险的类型、成因及管理对策。主要内容包括现代信用风险管理的新技术和新方法、商业银行信用管理、证券公司信用管理、保险公司及其他金融机构信用管理、金融机构信用管理监管体系和信用管理相关法律。

ZX1632 Credit Management of Financial Institutions

Hours：36 Credit(s)：2

【Learner-oriented】Credit Management Major