

## 课程详述

### COURSE SPECIFICATION

以下课程信息可能根据实际授课需要或在课程检讨之后产生变动。如对课程有任何疑问，请联系授课教师。

The course information as follows may be subject to change, either during the session because of unforeseen circumstances, or following review of the course at the end of the session. Queries about the course should be directed to the course instructor.

1.	课程名称 <b>Course Title</b>	证券投资学 Security Investments
2.	授课院系 <b>Originating Department</b>	数学系 Department of Mathematics
3.	课程编号 <b>Course Code</b>	FMA303
4.	课程学分 <b>Credit Value</b>	3
5.	课程类别 <b>Course Type</b>	专业核心课 Major Core Courses
6.	授课学期 <b>Semester</b>	秋季 Fall
7.	授课语言 <b>Teaching Language</b>	中英双语 English & Chinese
8.	授课教师、所属学系、联系方式（如属团队授课，请列明其他授课教师） <b>Instructor(s), Affiliation &amp; Contact</b> (For team teaching, please list all instructors)	杨燕，数学系 第一教学楼 313 yangy3@sustc.edu.cn 0755-8801-5914 Yan Yang, Department of Mathematics Rm313, The first Teaching Building yangy3@sustc.edu.cn 0755-8801-5914
9.	实验员/助教、所属学系、联系方式 <b>Tutor/TA(s), Contact</b>	无 NA
10.	选课人数限额(可不填) <b>Maximum Enrolment</b> (Optional)	

11. 授课方式 Delivery Method	讲授 Lectures	习题/辅导/讨论 Tutorials	实验/实习 Lab/Practical	其它(请具体注明) Other (Please specify)	总学时 Total
学时数 Credit Hours	48			复习、考试(2周) 6 Revision & Exam (2 weeks) 6-hours	48
12. 先修课程、其它学习要求 Pre-requisites or Other Academic Requirements	概率论(或概率论与数理统计) Probability Theory(or Probability and Statistics)				
13. 后续课程、其它学习规划 Courses for which this course is a pre-requisite	Models and Pricing of Financial Derivatives				
14. 其它要求修读本课程的学系 Cross-listing Dept.	金融系 Department of Finance				

### 教学大纲及教学日历 SYLLABUS

15. 教学目标 **Course Objectives**

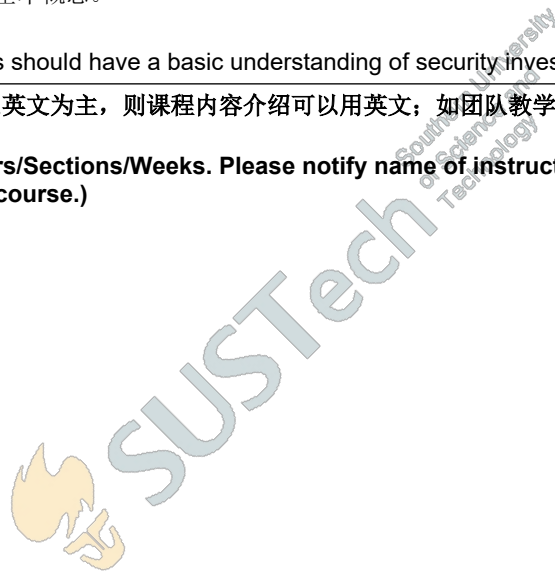
本课程将介绍金融投资方面的基本概念和重要理论，重点是介绍证券投资的主要概念以及金融数学入门知识  
This is an introductory course on the basic concepts in investment theory. The focus of this course is on the key concepts in the security investments.

16. 预达学习成果 **Learning Outcomes**

通过教学使学生初步掌握证券投资的基本概念。  
After taking the course, the students should have a basic understanding of security investments.

17. 课程内容及教学日历 (如授课语言以英文为主, 则课程内容介绍可以用英文; 如团队教学或模块教学, 教学日历须注明主讲人)

**Course Contents (in Parts/Chapters/Sections/Weeks. Please notify name of instructor for course section(s), if this is a team teaching or module course.)**



第一部分 绪论—投资环境，金融工具，证券交易，基金(4 学时)

Part I Introduction

The Investment Environment, Asset Classes and Financial Instruments, How Securities Are Traded, Mutual Funds and Other Investment Companies

第二部分 资产组合—风险与收益，风险厌恶，最优组合，指数模型(11 学时)

PART II Portfolio Theory and Practice

Introduction to Risk, Return, and the Historical Record, Risk Aversion and Capital Allocation

to Risky Assets, Optimal Risky Portfolios, Index Models

第三部分 资本市场均衡—CAPM 定理, 套利定价，有效市场，技术分析，收益实证(12 学时)

PART III Equilibrium in Capital Markets

The Capital Asset Pricing Model, Arbitrage Pricing Theory and Multifactor Models of Risk and Return, The Efficient Market Hypothesis, Behavioral Finance and Technical Analysis, Empirical Evidence on Security Returns

第四部分 固定收益证券—债券价格，利率期限结构，债券组合(9 学时)

PART IV Fixed-Income Securities

Bond Prices and Yields, The Term Structure of Interest Rates, Managing Bond Portfolios

第五部分 证券分析—经济行业，权益估值，财务报表(9 学时)

PART V Security Analysis

Macroeconomic and Industry Analysis, Equity Valuation Models, Financial Statement Analysis

第六部分 应用组合—组合业绩，国际分散，对冲基金，积极策略，投资政策(3 学时)

PART VI Applied Portfolio Management

Portfolio Performance Evaluation, International Diversification, Hedge Funds, The Theory of Active Portfolio Management, Investment Policy

18. 教材及其它参考资料 Textbook and Supplementary Readings

参考教材 Textbook:

投资学（第 10 版）(Investments, 10th edition), 滋维.博迪，亚历克斯.凯恩，艾伦 J.马库斯著，(Zvi Bodie, Alex Kane, Alan J. Marcus)，汪昌云，张永翼等译，机械工业出版社，2017

其他参考资料 Supplementary Readings:

《金融分析及应用》第3版，李楚霖，杨明，易江编著，首都经济贸易大学出版社，2014年

**课程评估 ASSESSMENT**

19. 评估形式 Type of Assessment	评估时间 Time	占考试总成绩百分比 % of final score	违纪处罚 Penalty	备注 Notes
出勤 Attendance				
课堂表现 Class Performance				
小测验 Quiz		10%		
课程项目 Projects		30%		
平时作业 Assignments				
期中考试 Mid-Term Test		25%		
期末考试 Final Exam		35%		
期末报告 Final Presentation				
其它（可根据需要 改写以上评估方式） Others (The above may be modified as necessary)				

20. 记分方式 GRADING SYSTEM

- A. 十三级等级制 Letter Grading  
 B. 二级记分制（通过/不通过） Pass/Fail Grading

**课程审批 REVIEW AND APPROVAL**

21. 本课程设置已经过以下责任人/委员会审议通过  
 This Course has been approved by the following person or committee of authority