

## 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>	金融风险管理 Financial Risk Management				
2.	授课院系 <b>Originating Department</b>	金融系 Department of Finance				
3.	课程编号 <b>Course Code</b>	FET303				
4.	课程学分 <b>Credit Value</b>	3				
5.	课程类别 <b>Course Type</b>	专业选修课 Major Elective Courses				
6.	授课学期 <b>Semester</b>	秋季 Fall				
7.	授课语言 <b>Teaching Language</b>	英文 English				
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)	王赫, 助理教授, 金融系 He WANG, Assistant Professor, Financial Department 邮箱/Email: wangh9@sustc.edu.cn 办公室/office: 慧园 3 栋 305, Wisdom Valley 3#305				
9.	实验员/助教、所属学系、联系方式 <b>Tutor/TA(s), Contact</b>	RA 郝璇杰 Xuanjie HAO 邮箱/Email: 11749015@mail.sustc.edu.cn				
10.	选课人数限额(可不填) <b>Maximum Enrolment (Optional)</b>					
11.	授课方式 <b>Delivery Method</b>	讲授 <b>Lectures</b>	习题/辅导/讨论 <b>Tutorials</b>	实验/实习 <b>Lab/Practical</b>	其它(请具体注明) <b>Other (Please specify)</b>	总学时 <b>Total</b>
	学时数 <b>Credit Hours</b>	48				48

12. 先修课程、其它学习要求 <b>Pre-requisites or Other Academic Requirements</b>	公司金融 Corporate Finance FIN206 概率论与数理统计 Probability and Statistics: MA212
13. 后续课程、其它学习规划 <b>Courses for which this course is a pre-requisite</b>	
14. 其它要求修读本课程的学系 <b>Cross-listing Dept.</b>	

**教学大纲及教学日历 SYLLABUS**

15. **教学目标 Course Objectives**

<p>Understand how risk affects different types of financial institutions. Learn the different types of risk and how they are managed Study the most recent regulatory issues that deal with risk 理解各种风险对于不同的金融机构所产生的影响 了解风险的多样性，以及相应的管理方法 了解最新的金融监管体系</p>
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16. **预达学习成果 Learning Outcomes**

<p>Tell the essential risks in different types of financial institutions. Use major financial risk management methods Understand the key regulation system 分辨各种风险对于不同的金融机构所产生的影响 使用主要的风险管理方法处理金融风险 理解金融监管体系</p>
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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.)**

<p>Risk management is important with the dangers inherent in the financial system, and a deep understanding is necessary for anyone working in the finance industry. A comprehensive introduction to financial risks and management approaches will help students to get well prepared for their future career developments. The course will explain different aspects of financial risk and financial institution regulation, helping students better understand the financial markets and potential dangers. In this course, students will have a chance to</p> <ul style="list-style-type: none"> <li>● Understand how risk affects different types of financial institutions.</li> <li>● Learn the different types of risk and how they are managed</li> <li>● Study the most recent regulatory issues that deal with risk</li> </ul> <p>Practice makes better. Understanding the in-class practice is extremely important. The take-home assignments are very good practice for your exams. There will be 1 midterms and 1 final across the whole semester. The final exam will be cumulative.</p> <p>风险管理对于处理隐藏于金融体系中的危险情况非常重要。对风险管理的深入理解是每一个金融从业人员所必须具备的知识。对金融风险和管理方法的介绍，将极大地有助于学生未来从事金融行业做好充分的准备。本课程将讲解金融风险的多面性和金融机构监管体系，帮助学生更好的理解金融市场和以及相应的潜在风险。在本课程中，学生将有机会接触到：</p> <ul style="list-style-type: none"> <li>● 理解各种风险对于不同的金融机构所产生的影响</li> <li>● 了解风险的多样性，以及相应的管理方法</li> <li>● 了解最新的金融监管体系</li> </ul> <p>练习将会有助于更好的学习。课堂上练习尤其重要，课后作业对于取得好成绩也将会有很大帮助。本课程有一个期中考试和一个期末考试，期末考试将包含期中考试前的内容。</p> <p style="text-align: center;"><b><u>COURSE OUTLINE</u></b></p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 20%;">Week</th> <th style="width: 80%;">Topic</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"></td> <td></td> </tr> </tbody> </table>	Week	Topic		
Week	Topic			

Week 1	Syllabus & Chapter 1: Introduction
Week 2	Chapter 2: Banks
	Chapter 3: Insurance Companies and Pension Plans
	Chapter 4: Mutual Funds and Hedge Funds
Week 3	Chapter 5: Trading in Financial Markets
Week 4	Chapter 6: The Credit Crisis of 2007
	Chapter 7: Valuation and Scenario Analysis: The Risk-Neutral and Real Worlds
Week 5	Chapter 8: How Traders Manager Their Risks
Week 6	Chapter 9: Interest Rate Risk
	Chapter 10: Volatility
	Chapter 11: Correlations and Copulas
Week 7	Chapter 12: Value at Risk and Expected Shortfall
	Chapter 13: Historical Simulation and Extreme Value Theory
	Chapter 14: Model-Building Approach
Week 8	Questions & Answers
	Mid-term
Week 9	Chapter 15: Basel-I, Basel-II, and Solvency II
Week 10	Chapter 18: Managing Credit Risk: Margin, OTC markets, and CCPs
	Chapter 19: Estimating Default Probabilities
	Chapter 20: CVA and DVA
	Chapter 21: Credit Value at Risk
Week 11	Chapter 22: Scenario Analysis and Stress Testing
Week 12	Chapter 23: Operational Risk
	Chapter 24: Liquidity Risk
	Chapter 25: Model Risk
Week 13	Chapter 26: Economic Capital and RAROC

Week 14	
Week 15	Chapter 27: Enterprise Risk Management
Week 16	Chapter 28: Risk Management Mistakes to Avoid
Week 17	Final exam

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

Risk Management and Financial Institutions 4th Edition, John Hull
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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		10		
小测验 Quiz				
课程项目 Projects		20		
平时作业 Assignments				
期中考试 Mid-Term Test		30		
期末考试 Final Exam		40		
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)**

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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**

金融系课程规划与审核委员会  
 Curriculum Planning and Review Committee, Dept. of Finance

