

课程大纲 COURSE SYLLABUS

1.	课程代码/名称 Course Code/Title	高级金融风险管理 Advanced Financial Risk Management																										
2.	课程性质 Compulsory/Elective	选修课 Elective																										
3.	课程学分/学时 Course Credit/Hours	3/48																										
4.	授课语言 Teaching Language	英文 English																										
5.	授课教师 Instructor(s)	王赫 助理教授 金融系																										
6.	先修要求 Pre-requisites																											
7.	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>																										
8.	教学方法 Teaching Methods	讲授法、讨论法 Teaching, Discussion																										
9.	教学内容 Course Contents	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Section 1</td> <td>Banks, Insurance Companies and Pension Plans, Mutual Funds and Hedge Funds</td> </tr> <tr> <td style="text-align: center;">Section 2</td> <td>Trading in Financial Markets</td> </tr> <tr> <td style="text-align: center;">Section 3</td> <td>The Credit Crisis of 2007</td> </tr> <tr> <td style="text-align: center;">Section 4</td> <td>Valuation and Scenario Analysis: The Risk-Neutral and Real Worlds</td> </tr> <tr> <td style="text-align: center;">Section 5</td> <td>How Traders Manager Their Risks</td> </tr> <tr> <td style="text-align: center;">Section 6</td> <td>Interest Rate Risk</td> </tr> <tr> <td style="text-align: center;">Section 7</td> <td>Volatility, Correlations and Copulas</td> </tr> <tr> <td style="text-align: center;">Section 8</td> <td>Value at Risk and Expected Shortfall, Historical Simulation and Extreme Value Theory, Model-Building Approach</td> </tr> <tr> <td style="text-align: center;">Section 9</td> <td>Basel-I, Basel-II, and Solvency II</td> </tr> <tr> <td style="text-align: center;">Section 10</td> <td>Managing Credit Risk: Margin, OTC markets, and CCPs</td> </tr> <tr> <td style="text-align: center;">Section 11</td> <td>Estimating Default Probabilities, CVA and DVA, Credit Value at Risk</td> </tr> <tr> <td style="text-align: center;">Section 12</td> <td>Scenario Analysis and Stress Testing</td> </tr> <tr> <td style="text-align: center;">Section 13</td> <td>Operational Risk, Liquidity Risk, Model Risk</td> </tr> </table>	Section 1	Banks, Insurance Companies and Pension Plans, Mutual Funds and Hedge Funds	Section 2	Trading in Financial Markets	Section 3	The Credit Crisis of 2007	Section 4	Valuation and Scenario Analysis: The Risk-Neutral and Real Worlds	Section 5	How Traders Manager Their Risks	Section 6	Interest Rate Risk	Section 7	Volatility, Correlations and Copulas	Section 8	Value at Risk and Expected Shortfall, Historical Simulation and Extreme Value Theory, Model-Building Approach	Section 9	Basel-I, Basel-II, and Solvency II	Section 10	Managing Credit Risk: Margin, OTC markets, and CCPs	Section 11	Estimating Default Probabilities, CVA and DVA, Credit Value at Risk	Section 12	Scenario Analysis and Stress Testing	Section 13	Operational Risk, Liquidity Risk, Model Risk
Section 1	Banks, Insurance Companies and Pension Plans, Mutual Funds and Hedge Funds																											
Section 2	Trading in Financial Markets																											
Section 3	The Credit Crisis of 2007																											
Section 4	Valuation and Scenario Analysis: The Risk-Neutral and Real Worlds																											
Section 5	How Traders Manager Their Risks																											
Section 6	Interest Rate Risk																											
Section 7	Volatility, Correlations and Copulas																											
Section 8	Value at Risk and Expected Shortfall, Historical Simulation and Extreme Value Theory, Model-Building Approach																											
Section 9	Basel-I, Basel-II, and Solvency II																											
Section 10	Managing Credit Risk: Margin, OTC markets, and CCPs																											
Section 11	Estimating Default Probabilities, CVA and DVA, Credit Value at Risk																											
Section 12	Scenario Analysis and Stress Testing																											
Section 13	Operational Risk, Liquidity Risk, Model Risk																											

	Section 14	Economic Capital and RAROC
	Section 15	Enterprise Risk Management
	Section 16	Risk Management Mistakes to Avoid
10.	课程考核 Course Assessment	
	课堂表现 Class:10% 课程项目 Projects:20% 期中考试 Mid-Term Test:30% 期末考试 Final Exam:40%	
11.	教材及其它参考资料 Textbook and Supplementary Readings	
	Risk Management and Financial Institutions 4th Edition, John Hull	