



**Announcement WiSe 2015/2016
Lecture in Mathematical Finance**

Quantitative Risk Management

Prof. Dr. Matthias Scherer

Area: / Modulnr.:	Mathematical Finance/ MA 5415
Course Structure:	Lecture: 2h Exercises: 1h Programming: 1h
Content:	Basic concepts in Risk Management, Basel II and Solvency II, risk measures: examples and discussions, multivariate models: dependence modelling, normal and normal mixture models, copulas, simple dimension reduction methods, extreme value theory.
Audience:	BSc Mathematik, MSc Mathematik, Mathematical Finance and Actuarial Science, OR
Prerequisite:	MA1401 (Introduction to Probability Theory), MA2003 (Measure and Integration), MA2402 (Basic Statistics), MA2409 (Probability Theory)
Literature:	McNeil, A.J., Frey, R. and Embrechts, P. (2005): Quantitative Risk Management: Concepts, Techniques and Tools, Princeton University Press. Carmona, R. (2004): Statistical Analysis of Financial Data in S-Plus, Springer, New York. Glasserman, P. (2004): Monte Carlo Methods in Financial Engineering, Springer, New York.
Certificate:	Exam, 5 CP
Location:	TBA
Lecture:	TBA
Exercises:	TBA.