

ORIE 668 Mathematical Finance I

Spring Term 2008

Hours and location

- Lectures: TR 0110-0225PM, UP 109

Staff

- Instructor:
Stefan Weber, 279 Rhodes, (607) 254-4825, email: sweber@orie.cornell.edu

Text books

- Hans Föllmer & Alexander Schied: Stochastic Finance, 2nd Edition, 2004

Prerequisites

Students should have taken ORIE 650 or equivalent.

Tentative syllabus

The course provides an introduction to mathematical finance in discrete time for Ph.D. students. Topics include arbitrage theory, preferences, optimality and market equilibrium, risk measures, dynamic hedging, American contingent claims, superhedging, efficient hedging, hedging under constraints, and hedging error. The course is a prerequisite for Mathematical Finance II (ORIE 669) which focuses on continuous time finance.

Homepage

Information about the course including assignments will be posted:

<http://www.blackboard.cornell.edu/>

Please enroll in this site. For further information see

http://www.cit.cornell.edu/atc/cst/howto_selfenroll.shtml

The required access code will be announced in class.