

## Course Descriptions Master 2015-2016

Course Title Asset Pricing

Course Code EBC4208

ECTS Credits 6,5

Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
1	31-8-2015	23-10-2015		X		X	

Level Advanced

Coordinator Peter Schotman For more information: [p.schotman@maastrichtuniversity.nl](mailto:p.schotman@maastrichtuniversity.nl)

Language of instruction English

Goals Students learn to apply mathematical tools to model the valuation of financial assets and assess risk.

Description Asset Pricing deals with the valuation of financial securities. Most of this course follows the textbook Asset Pricing by John Cochrane. The main topic of the book is valuation of any kind of financial instrument within the unified framework of stochastic discount factors. The first, and largest, part of the course covers part I of the book and deals with many of the standard theory tools in asset pricing. This part of the course introduces concepts like the stochastic discount factor, no-arbitrage, factor pricing models, complete markets, equilibrium asset pricing, beta-pricing models, risk neutral valuation, contingent claims, mean-variance analysis, intertemporal asset pricing, conditional asset pricing, spanning, Hansen-Jagannathan bounds. The second part of the course follows part III of the book and deals specifically with the valuation principles for derivative securities like options and fixed income instruments. This part applies the stochastic discount factor techniques in continuous time models. The final part of the course considers applications in recent research papers.

Literature Asset Pricing by John Cochrane, revised first edition, Princeton University Press, 2005.

Prerequisites Strong quantitative background.

Teaching methods PBL / Presentation / Lecture / Assignment

Assessment methods Final Paper / Attendance / Participation

Evaluation in previous academic year For the complete evaluation of this course please click <http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM>

This course belongs to the following programme / specialisation

Master Econometrics and OR	Econometrics
Master Economic and Financial Research Track Econometrics	Econometrics, Finance & Monetary Economics
Master Economic and Financial Research	Econometrics, Finance & Monetary Economics