

## Course Descriptions Master 2013-2014

Course Title                      Equilibrium Theory and Financial Markets  
 Course Code                     EBC4009  
 ECTS Credits                    6,5  
 Assessment                      None

Period	Period	Start	End	Mon	Tue	Wed	Thu	Fri
5		14-4-2014	6-6-2014	X		X		

Level                                Advanced

Coordinator                      Elias Tsakas For more information: [e.tsakas@maastrichtuniversity.nl](mailto:e.tsakas@maastrichtuniversity.nl)

Language of instruction        English

Goals                                Learn about the notion of competition in a setting with many households, firms, and commodities.  
 Understand the notions of competitive equilibrium, the first and second fundamental welfare theorem, and the core.  
 Understand the role of financial markets in reshuffling income across time and states of the world.  
 Learn about the consequences of market incompleteness.  
 Understand the Capital Asset Pricing Model.

Description                        After introducing the necessary mathematical preliminaries and extending our knowledge on selected ingredients from consumer theory, the course focuses on general equilibrium models with complete markets, in particular classical exchange and production economies. Central concepts to be studied are the competitive equilibrium and the core. Next, the model is extended to include time and uncertainty, and the strong assumption of complete markets is relaxed. This makes it possible to incorporate financial markets in a satisfactory way. We study the relationships between equilibrium and arbitrage opportunities, and the valuation of financial securities. The well-known CAPM is a special case of the model studied. A rigorous derivation of the CAPM is provided.

Literature                         Reny and Jehle, Advanced Microeconomic Theory, Addison-Wesley, 1998 - LeRoy and Werner, Principles of Financial Economics, Cambridge University press, 2001

Prerequisites                      Intermediate microeconomics course, e.g. Microeconomics, or Information, Markets and Organisation.  
 Exchange students need to have obtained a Bachelor degree with a major in Economics or Econometrics and have an advanced level in mathematics.  
 an advanced level of English

Teaching methods                PBL / Assignment

Assessment methods            Written Exam

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 Business Research	Free Electives
Master Business Research Track OR	Free Electives
Master Econometrics and OR	Econometrics & OR Electives
Master Econometrics and OR	Mathematical Economics
Master Economic and Financial Research Track Econometrics	Electives
Master Economic and Financial Research Track Econometrics	Track Econometrics Core Courses
Master Economic and Financial Research	Electives
SBE Exchange Master	Master Courses
SBE Non Degree Courses	Master Courses