

## Course Descriptions NonDegree 2015-2016

Course Title Game Theory and Economics  
 Course Code EBC2110  
 ECTS Credits 6,5  
 Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
2	26-10-2015	18-12-2015	X/E		X/E	X/E	

Level Advanced

Coordinator Dries Vermeulen For more information: [d.vermeulen@maastrichtuniversity.nl](mailto:d.vermeulen@maastrichtuniversity.nl)

Language of instruction English

Goals Knowledge of the main concepts in cooperative and non-cooperative game theory; skills in applying these concepts in economic models.

Description This course discusses the main concepts from cooperative and non-cooperative game theory:  
 - Cooperative game theory: core, Shapley value, nucleolus.  
 - Non-cooperative game theory: Nash equilibrium, subgame perfect equilibrium, Bayesian and perfect Bayesian equilibrium.  
 The emphasis will be on concepts and applications. Applications range from oligopoly theory to job market signalling, investment policies, organisational strategies, and cost allocation.

Literature Game Theory: A multi-leveled approach, author: Hans Peters/Springer 2008 ISBN:3540692908

Prerequisites 1. The course is open for all students, although Economics students should be aware of the challenging technical level of this course. The course Thinking strategically could be a proper alternative.  
 2. This course is compulsory for 2nd-year students Econometrics and Operations Research.  
 3. Exchange students need to follow a Bachelor in economics, not in business and must have a decent level in mathematics, especially calculus. Some prior knowledge about microeconomics would be helpful.  
 An advanced level of English.

Teaching methods PBL / Lecture / 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

Bachelor Economics and Business Economics Specialisation Economics	QE Electives
Bachelor Economics and Business Economics Specialisation Economics and Management of Information	QE Electives
Bachelor Econometrics and Operations Research	Year 2 Compulsory Courses
SBE Exchange Bachelor	Bachelor Exchange Courses
SBE Exchange Master	Bachelor Exchange Courses
SBE Non Degree Courses	Bachelor Courses