

## Course Descriptions NonDegree 2016-2017

Course Title Thinking Strategically  
 Course Code EBC2082  
 ECTS Credits 6,5  
 Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
1	5-9-2016	28-10-2016	X		X		

Level Intermediate/Advanced

Coordinator Hans Peters For more information:h.peters@maastrichtuniversity.nl

Language of instruction English

Goals After this course students know the basic concepts of game theory and their applications to economics.

Description The course treats the main concepts of game theory at an intermediate level, and includes applications to economics. The following topics are discussed : zero sum games, value and optimal strategies. nonzero sum games, Nash equilibrium, subgame perfect Nash equilibrium. Games with incomplete information, perfect Bayesian Nash equilibrium. Applications to standard economic models, bargaining and auctions. Evolutionary games, repeated games. Cooperative games: core, Shapley value, nucleolus.

Literature H. Peters: Game Theory - A Multileveled Approach, Springer, 2015 (2nd edition).

Prerequisites Basic knowledge of standard calculus, as taught in the first year of an average program in economics or business. For students from Maastricht: level of QM1 and QM2.

Teaching methods PBL / Lecture / Assignment

Assessment methods Attendance / Participation / 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 Emerging Markets	QE Electives
Bachelor Economics and Business Economics Specialisation Economics and Management of Information	QE Electives
Bachelor Economics and Business Economics Specialisation International Business Economics	QE Electives
Bachelor International Business	QE electives
SBE Exchange Bachelor	Bachelor Exchange Courses
SBE Exchange Master	Bachelor Exchange Courses
SBE Non Degree Courses	Bachelor Courses