

Course Descriptions None 2025-2026

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	27-10-2025	12-12-2025	X		X		X

Level Advanced
 Coordinator Marc Schröder For more information:m.schroder@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 non-cooperative and cooperative game theory:
 * Non-cooperative game theory: Nash equilibrium, subgame perfect equilibrium, and Bayesian equilibrium.
 * Cooperative game theory: core, Shapley value, nucleolus.
 Applications range from auctions to job market signalling, and cost allocation.
 Literature Game Theory: A multi-levelled approach, author: Hans Peters/Springer 2015 2nd edition.
 Prerequisites 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.This course is compulsory for 2nd-year students Econometrics and Operations Research.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.
 Transitional Regulations <div class="trreg"><div class="subtitle">TRANSITIONAL REGULATIONS</div><ul class="trcohorts">Bachelor Economics and Business Economics - Economics and Management of Information [2024-2025 or earlier]Bachelor Economics and Business Economics - International Business Economics [2024-2025 or earlier]From 2025-2026 onwards, education and exam/resit opportunities are offered.
Alternative options may be available. See the Bachelor EER 2025-2026 Appendix I Article 16 for more information.<table><col style="width: 200px;"><col style="width: 120px;"><thead><tr><th>Academic Year</th><th>Education</th><th>Exam/Resit</th><th>Replacement(s)</th></tr></thead><tbody><tr><td>2025-2026 onwards</td><td>X</td><td>X</td><td>See the Bachelor EER 2025-2026 Appendix I Article 16 for more information</td></tr></tbody></table></div>
 Teaching methods PBL / Presentation / Lecture / Groupwork
 Assessment methods Written Exam / Assignment
 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 Business Analytics	Year 3 Elective Courses
Bachelor Economics and Business Economics - Economics	Year 3 Quantitative Economics Electives
Bachelor Economics and Business Economics - Emerging Markets	Year 3 Elective Courses
Bachelor Economics and Business Economics - Economics and Management of Information	In transition - Year 2+3 QE Electives
Bachelor Economics and Business Economics - Economics and Management of Information	Year 3 Quantitative Economics Elective
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Accounting - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Finance - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Inf Mgmt - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Marketing - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Org - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj SCM - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Strategy - QE Elec
Bachelor Economics and Business Economics - International Business Economics	Year 3 Quantitative Economics Elective
Bachelor Econometrics and Operations Research	Year 2 Compulsory Courses
Bachelor Fiscal Economics	Annex 1 Electives
Bachelor International Business - Emerging Markets	Year 3 Elective Courses
Bachelor International Business	Year 3 QE Elecs - Maj Accounting
Bachelor International Business	Year 3 QE Elecs - Maj Finance
Bachelor International Business	Year 3 QE Elecs - Maj Inf Mgmt
Bachelor International Business	Year 3 QE Elecs - Maj Marketing
Bachelor International Business	Year 3 QE Elecs - Maj Org
Bachelor International Business	Year 3 QE Elecs - Maj SCM
Bachelor International Business	Year 3 QE Elecs - Maj Strategy
SBE Exchange Bachelor	Bachelor Exchange Courses
SBE Exchange Master	Bachelor Exchange Courses
SBE Non Degree Courses	Bachelor Courses