Course Descriptions None 2026-2027

Course Title	Economics of Uncertainty and Information
Course Code	EBC2108
ECTS Credits	6,5
Assessment	Whole/Half Grades

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
5	12-4-2027	4-6-2027	L	X		X	

Level	Advanced
Coordinator	Arkadi Predtetchinski For more information:a.predtetchinski@maastrichtuniversity.nl
Language of instruction	English
Goals	(1) Get familiar with the microeconomic theory of uncertainty and information, its conclusions, limitations, and main applications; (2) Acquire a working knowledge of techniques to analyze problems of choice under uncertainty and of asymmetric information.
Description	This course, which falls under the area of mathematical economics and belongs to the Bachelor program Econometrics and Operations Research, gives an introduction to the microeconomic theory of uncertainty and information. In the course, we study basic elements of the role that information plays in the decisions of individuals and firms, as well as in the working of markets. This is done by combining elementary methods of microeconomics with those from elementary probability theory. First, we introduce expected utility maximization, the standard model of choice under uncertainty. We then use this model to study numerous important issues arising from incomplete information, such as attitudes toward risk, demand for insurance, portfolio selection, value of information, (in)efficiency of markets, moral hazard, and adverse selection.
Literature	Bikhchandani, S., J. Hirshleifer, and J.G. Riley (2013), The Analytics of Uncertainty and Information, 2nd edition, Cambridge University Press, Cambridge.
Prerequisites	* Prior knowledge in microeconomics equivalent to the course "Microeconomics" (EBC1012) is essential. * Recommended are also the courses "Probability Theory" (EBC1024), "Analysis II" (EBC1032), "Optimisation" (EBC2105), and "Game Theory and Economics" (EBC2110). * Exchange and elective students should be aware of the advanced mathematical level of this course.
Transitional Regulations	<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 - Major Accounting [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Finance [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Information Management [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Marketing [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Organisation [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Strategy [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Supply Chain Management [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;"><col style="width: 120px;"><col><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> <ul class="trcohorts"> - Bachelor Fiscal Economics - In 2024-2025, 2025-2026, and 2026-2027 education and exam/resit opportunities are offered. - In 2027-2028 exam/resit opportunities are offered. - From 2028-2029 onwards, the course is cancelled. <table><col style="width: 200px;"><col style="width: 120px;"><col style="width: 120px;"><col><thead><tr><th>Academic Year</th><th>Education</th><th>Exam/Resit</th><th>Replacement(s)</th></tr></thead><tbody><tr><td>2024-2025 - 2026-2027</td><td>X</td><td>X</td><td> </td></tr><tr><td>2027-2028</td><td> </td><td>X</td><td> </td></tr><tr><td>2028-2029 onwards</td><td> </td><td> </td><td> </td></tr></tbody></table> <ul class="trcohorts"> - Pre-master Economics [2022-2023 or earlier] - Pre-master Human Decision Science [2022-2023 or earlier] - In 2023-2024 education and exam/resit opportunities are offered. Alternatively, students can take EBC2197 "Intermediate Microeconomics for Pre-master". - From 2024-2025 onwards, the course is cancelled. <table><col style="width: 200px;"><col style="width: 120px;"><col style="width: 120px;"><col><thead><tr><th>Academic Year</th><th>Education</th><th>Exam/Resit</th><th>Replacement(s)</th></tr></thead><tbody><tr><td>2023-2024</td><td>X</td><td>X</td><td>EBC2197 "Intermediate Microeconomics for Pre-master"</td></tr><tr><td>2024-2025 onwards</td><td> </td><td> </td><td> </td></tr></tbody></table>
Teaching methods	PBL / Lecture / Assignment
Assessment methods	Written Exam / Presentation
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 - 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	In transition - Year 3 Elective Courses
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
Pre-master Econometrics and Operational Research	Compulsory Courses
Pre-master Economics	Cancelled - Disciplinary Courses
Pre-master Human Decision Science	Cancelled - Disciplinary Courses