Course Descriptions None 2026-2027

Course Title	Actuarial Mathematics
Course Code	EBC2122
ECTS Credits	6,5
Assessment	Whole/Half Grades

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
4	1-2-2027	25-3-2027					

Level	Advanced
Coordinator	Marc Schröder For more information:m.schroder@maastrichtuniversity.nl
Language of instruction	English
Goals	See course contents.
Description	The principal aim of this course is to provide students with a solid grounding in the subject of life insurance and life annuity (including pension) contracts. This subject arises through a fusion of compound interest theory with probability theory and provides the mathematical framework necessary for analysing such contracts. Having developed this framework, we can address issues such as how to determine the premium that should be charged for a certain life insurance contract.
Literature	"Fundamentals of Actuarial Mathematics" by Promislow
Prerequisites	First two years of the Econometrics and OR bachelor program, in particular Mathematics, Probability Theory, and Mathematical Statistics.
Transitional Regulations	<ul class="trcohorts">Bachelor Econometrics and Operations Research [2025-2026 and earlier] - In 2026-2027 and 2027-2028 exam/resit opportunities are offered. - In 2028-2029, the course is cancelled. Note that from 2026-2027 onwards, EBC2208 "Actuarial Sciences" is offered as a replacement course. <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>2026-2027 - 2027-2028</td><td> </td><td>X</td><td>EBC2208 "Actuarial Sciences"</td></tr><tr><td>2028-2029</td><td> </td><td> </td><td>EBC2208 "Actuarial Sciences"</td></tr></tbody></table>
Teaching methods	PBL / Presentation / Groupwork
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 Econometrics and Operations Research	In transition - Year 3 Disciplinary Courses
Bachelor Econometrics and Operations Research	In transition - Year 3 Elective Courses