

## Course Descriptions Exchange 2023-2024

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		5-2-2024	28-3-2024			X		X

Level Advanced

Coordinator Marc Schröder For more information: [m.schroder@maastrichtuniversity.nl](mailto: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 Hans U. Gerber (1997). Life Insurance Mathematics. 3rd edition Springer.

Prerequisites First two years of the Econometrics and OR bachelor program, in particular Mathematics, Probability Theory, and Mathematical Statistics.

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 Econometrics and Operations Research	Year 3 Core Course(s)
Bachelor Econometrics and Operations Research	Year 3 Elective Course(s)
SBE Exchange Bachelor	Bachelor Exchange Courses
SBE Exchange Master	Bachelor Exchange Courses
SBE Non Degree Courses	Bachelor Courses