

## Course Descriptions NonDegree 2018-2019

Course Title Life Insurance II

Course Code EBC4120

ECTS Credits 6,5

Assessment None

Period	Start	End	Mon	Tue	Wed	Thu	Fri
5	15-4-2019	7-6-2019	X			X	

Level Advanced

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Language of instruction English

Goals To become acquainted with statistical models that can be used in life insurance.

Description The course aims at providing the students with statistical models that are useful in life insurance. We discuss methods to model mortality rates. A particular focus is on the Lee-Carter model and its extensions. We also learn how to estimate these models. Furthermore, students get an introduction to statistical models, in particular regression models, that are appropriate for lifetime distributions. For instance, we address the Cox-model, the AFT model and multiple decrement models. We then discuss how these models can be used to calculate life insurance premiums.

Literature Research articles, the slides of the course.

Prerequisites Probability Theory and Mathematical Statistics.

Teaching methods PBL / Presentation / Lecture / Assignment

Assessment methods Final Paper / 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

Master Econometrics and Operations Research	Actuarial Science
Master Econometrics and Operations Research	Econometrics & OR Electives
SBE Exchange Master	Master Exchange Courses
SBE Non Degree Courses	Master Courses