

Course Descriptions Exchange 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
 Coordinator Eric Beutner For more information:e.beutner@maastrichtuniversity.nl

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>

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| 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 |