

### **Coverage Core Syllabus by EMAS program**

The file '2021-12-AAE-Syllabus-Coverage\_final\_EMAS.xlsx' contains the coverage of the topics of the AAE Core Syllabus by the EMAS program in general terms.

The excel file 'MappingEducationSyllabusCourses.xlsx' contains the detailed mapping from the topics of the AAE Core Syllabus to the courses and cases of the EMAS program (and to the preliminary education or PrEMAS courses).

The file 'Descriptions Courses PrEMAS.pdf' contains a description of the PrEMAS courses, the file 'Descriptions Course EMAS.pdf' contains a description of the EMAS courses and the file 'Description Cases EMAS.pdf' contains a description of the most recent six cases of the EMAS program. The EMAS course descriptions present for each course the topics included and the learning outcomes. The EMAS case descriptions include detailed descriptions of the case, the required output, and the competences.

### **Entry requirements EMAS**

Students with as background a strong quantitative BSc- or MSc program including courses on life, non-life, and quantitative finance. Strong quantitative BSc- or MSc programs are programs *Actuarial Science* and *Econometrics and Operations Research* with an actuarial track. This corresponds to  $3 \times 60 = 180$  ECTS (BSc) or  $4 \times 60 = 240$  ECTS (MSc).

Students not satisfying these entry requirements can be admitted (depending on their preliminary education) but first must follow some or all PrEMAS courses. Each PrEMAS course corresponds to a study load of 7.5 ECTS.

### **EMAS program**

The program contains the following parts:

#### **A. Courses (21 ECTS):**

1. Statistical Methods (5 ECTS)
2. Life and Pensions (4 ECTS)
3. Valuation and Hedging (4 ECTS)
4. Risk and Regulation (4 ECTS)
5. Capita Selecta in Actuarial Science (4 ECTS)

#### **Cases (24 ECTS):**

1. Insurance Coverage for Physiotherapy (4 ECTS)
2. Mitigating Risks for African Utilities (4 ECTS)
3. Financially Sustainable Pensions (4 ECTS)
4. Strategic Risk: Real Options and Futures (4 ECTS)
5. Valuation of a Life Insurance Portfolio (4 ECTS)
6. Retail Mortgages (4 ECTS)

#### **B. Thesis (15 ECTS)**

The total study load of the EMAS program is 60 ECTS.