

## **Q&A for the Premaster EMAS (PrEMAS)**

### **1. What are the admission requirements for the PrEMAS programme?**

Entry requirement is at least a bachelor's degree. To find out which modules you have to finish in the PrEMAS programme to be admitted to the EMAS, please contact our programme coordinator, Leandra Pennartz, at +31 6 83156932 or [leandra.pennartz@actuarieelinstituut.nl](mailto:leandra.pennartz@actuarieelinstituut.nl) for a personalised study advice based on your previous education. Our study advice is free and non-binding.

### **2. What does the Premaster EMAS (PrEMAS) programme consist of?**

The PrEMAS programme consists of six modules (PrEMAS 1 to PrEMAS 6). Depending on your background, you may either directly enter the EMAS programme or be required to complete one or more PrEMAS modules before proceeding to EMAS. This information is in your personal study advice.

### **3. Which 6 modules make up the PrEMAS programme and what is a brief overview of the content of each module?**

#### **a. PrEMAS 1 - Mathematical Methods for Actuaries**

This module covers topics such as differentiation and integration of functions of multiple variables, linear algebra, and the theory of linear differential equations. Knowledge of series and complex numbers is helpful. This foundational knowledge is essential for actuaries working with practical applications.

#### **b. PrEMAS 2 - Corporate Finance and Quantitative Finance**

You will gain insight into widely used derivatives such as futures and swaps, option valuation using binomial trees, and the Black-Scholes-Merton model. The corporate finance section covers topics such as capital structure, cost of capital, and investment analysis.

#### **c. PrEMAS 3 - Probability theory and statistics for actuaries**

This module introduces fundamental concepts in probability theory and statistics, including probability distributions, point estimation, hypothesis testing, and Bayesian inference. You will also gain hands-on experience with the statistical software R to solve practical problems.

#### **d. PrEMAS 4 - Econometrics and Academic Skills**

You will apply econometric methods to data from the financial, actuarial, and economic fields using R. The course also covers topics such as model interpretation, sensitivity analysis, assumption checking, and result reproducibility.

#### **e. PrEMAS 5 - Actuarial Science**

This module provides a solid foundation in fundamental actuarial techniques for both non-life and life insurance, as well as pension products. It also explores the application of these techniques within the Solvency II framework, focusing on the market value balance sheet of an insurer.

f. **PrEMAS 6 - Macro & Micro-economics**

You will be introduced to core principles of both microeconomics and macro-economics, including elasticity, pricing strategies, inflation, interest rates, and international trade. The course also covers the basics of financial systems.

**4. What are the entry requirements for the different modules?**

Entry requirements vary by module:

- To enrol in **PrEMAS 1**, the general entry requirement applies: a (quantitative) bachelor's degree.
- To enrol in **PrEMAS 2** and **PrEMAS 3**, you must have completed PrEMAS 1 or an equivalent course.
- To enrol in **PrEMAS 4** and **PrEMAS 5**, you must have completed both PrEMAS 1 and PrEMAS 3 or an equivalent qualification.
- For **PrEMAS 6** the general entry requirement applies: a (quantitative) bachelor's degree.

**5. When do the classes for the Premaster EMAS programme start?**

Classes for the 2025-2026 academic year will be held on Mondays (afternoon & evening) and will start as follows: PrEMAS 1 and PrEMAS 6 on 25 August 2025; PrEMAS 2 on 5 January 2026; PrEMAS 3 on 12 January 2026; and PrEMAS 4 and PrEMAS 5 on 11 May 2026.

**6. How is the programme evaluated?**

Each module is evaluated through separate exams, focusing on the specific subjects covered in that module, such as linear algebra, statistical analysis, or actuarial techniques.

**7. Can I customise my personal PrEMAS programme?**

Yes, based on your previous education, your personal programme in your study advice is tailored to include one or more modules. We will advise you on the best structure for your situation.

**8. Is the study advice free?**

Yes, the study advice is free and non-binding. Please feel free to reach out for any questions or concerns about your eligibility for the Premaster EMAS programme.

**9. Can I directly enter the Executive Master of Actuarial Science (EMAS) after completing the Premaster?**

After completing the Premaster, you can be admitted to the EMAS on the condition that you have an actuarial position. In some cases, depending on your previous education, you may be able to directly enter the EMAS programme.