



Actuarial Science

Econometrics

What is the Bachelor's programme about?



By learning to calculate complex financial risks, you can determine the required level of an insurance premium. You incorporate all of the relevant factors into a probability model that emulates reality as closely as possible.

Using mathematical models as well as statistical techniques. You learn to analyse economic (or business) issues and translate your analyses into policy or predict the possible consequences of certain decisions.

What topics are covered?



The basic programme is identical to Econometrics, comprising a lot of mathematics, statistics, economics and finance. You will only take actuarial courses in your third year: Life Insurance Mathematics, Financial Accounting and Stochastic Methods. In addition, you can choose electives.

The basic programme is identical to Actuarial Science, comprising a lot of mathematics, statistics, economics and finance. However, you will only take econometrics courses in your third year: Time Series Analysis, Mathematical Economics, Mathematical Financing and Advanced Econometrics. In addition, you can choose electives.

Which specialisations can I choose?



There are no specialisations, as the Bachelor's in Actuarial Science has a broad programme. You will specialise during your Master's.

Econometrics or Data Science

Admission requirements



Pre-university (VWO) diploma with Mathematics B or equivalent.

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Who is a good fit for this programme?



You have high grades in Mathematics B and you enjoy the subject. You are also meticulous, analytical and a good abstract thinker.

An interest in society is essential. Also, it's important that you enjoy and excel in mathematics. Finally, you can work independently, you show initiative, are inquisitive and are able to think abstractly and analytically.

Career prospects



Many actuaries work for insurance companies, pension funds, banks or consultancies.

Among other things, econometricians work for government ministries, Dutch Central Bank, CPB Netherlands Bureau for Economic Policy Analysis, Statistics Netherlands (CBS), transport and logistics companies, banks and consultancies.

More information



uva.nl/bsc-actuarial-science

uva.nl/bsc-econometrics