

Actuarial Sciences

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Key facts

- ✦ Unique courses designed in conjunction with practitioners
- ✦ Third year in business/commerce working with practising actuaries
- ✦ Wide range of options in mathematics, computing, statistics, business and economics
- ✦ Some teaching by practising actuaries at Norwich Union
- ✦ Likelihood of earning exemptions from up to eight professional actuarial examinations
- ✦ Excellent career prospects

Admissions Policy

We require a strong preparation in Mathematics, which is why our typical offer of AAB includes an A grade in A level Mathematics. To encourage applicants who are able to study Further Mathematics to A level, we make an alternative offer of AAC, including an A in Mathematics and an A in Further Mathematics. Foundation courses are acceptable but must contain a high level of maths (see page 242 for details of the foundation year of UEA's degree in Science). We welcome applications from students with alternative qualifications and overseas students with equally strong preparation in Mathematics. We will invite all suitably qualified applicants to one of our Visit Days for a tour of the campus and our facilities and to meet current students and staff.

Teaching and Assessment

This four-year course is taught by the School of Mathematics, School of Computing Sciences and the Norwich Business School at UEA. Although strongly rooted in mathematics, and especially in statistics, modern actuarial science includes significant amounts of business and computing. Most teaching is lecture based and complemented by seminar classes where you may share in problem solving and obtain individual help. Some modules include practical laboratory classes that allow you to gain experience in developing computational models. The teaching at the University also includes sessions led by practising actuaries from, for example, Norwich Union. Directed student-centred learning is encouraged through private study and the use of the library, internet and other facilities. Assessment methods include coursework and end-of-year examinations. Coursework consists of exercise sheets, practical exercises, reports, essays and class tests. The BSc Actuarial Sciences with a year in Industry programme conforms to the benchmarking standards for Mathematics, Statistics and Operational Research (MSOR) laid down by the Quality Assurance Agency for Higher Education.

Year in Industry

The third year is spent in a business/commercial environment in paid employment working alongside actuaries so that you may gain awareness of the application of technical concepts in the workplace, thereby enhancing your career prospects. Assistance will be provided to help you find a suitable placement that will give you the necessary work experience. The year spent in industry is assessed through a written project report.

Career Prospects

On completion of the BSc Actuarial Sciences with a year in Industry, successful students may earn exemptions from up to eight of the Institute of Actuaries professional actuarial examinations. Students graduating with a good class degree can thus expect to be fully qualified within two or three years of completing the degree with the potential to earn an excellent starting salary as an actuary. Many other employment opportunities in management, banking, business statistics and finance also exist.

Actuarial Sciences

BSc Actuarial Sciences with a year in Industry UCAS code N323

A level (typical offer): AAB/AAC
(incl A level Further Mathematics)
International baccalaureate: 33
(incl 7 in HL Mathematics)
Special entry requirements:
A level Mathematics
Length of course: 4 years

This four-year course combines depth of study with an excellent preparation towards becoming an actuary. It will develop your appreciation of recent actuarial developments and practice and of the links between the theory of the subjects and their practical application in industry. The first two years are devoted to learning mathematical skills in the School of Mathematics, computing and statistical skills in the School of Computing Sciences and business and management skills in the Norwich Business School. You will gain awareness of the application of technical concepts in the workplace by spending the third year on a placement in a business/commercial setting, working with professional actuaries. Professional development continues into the fourth year with a module on Professional Actuarial Practice presented by actuaries from Norwich Union and academics from the Norwich Business School. It may be possible to earn exemptions from the first eight professional actuarial examinations.

Year 1

The first year includes compulsory modules designed to develop a firm foundation in mathematical, computing, economic and business skills.

Modules include:

- Calculus
- Accounting for Management Decisions
- Computing Fundamentals
- Organisational Behaviour
- Mathematics for Actuaries

Year 2

Your study continues to build upon the foundations developed during your first year, including compulsory modules and a choice of optional modules. This enables you to develop your specialist interests in the areas of computing, economics or business.

Modules include:

- Actuarial Methods
- Economics for International Business
- Database Systems
- Business Skills for Managers

Year 3

In the third year, you will spend a whole year on a placement in a business setting working alongside practising actuaries. You will produce a project report throughout your placement year. The University will assist you in finding an appropriate placement and placements will be paid employment.

Year 4

In the fourth and final year you will study compulsory modules in mathematics, statistics and professional actuarial practice, as well as choosing from the range of available optional modules covering specific areas of business and computing. This will provide you with the opportunity to strengthen your knowledge in mathematics and professional actuarial practice, and also to study your chosen specialist areas in more depth.

Modules include:

- Financial Mathematics
- Advanced Statistics
- Business Finance
- Business and Company Law

You will also have the opportunity to study a free choice advanced module in mathematics, computer science or management.

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or email cmp.admiss@uea.ac.uk



Business Statistics

BSc Business Statistics UCAS code G390

A level (typical offer): ABC
International baccalaureate: 31
(incl 5 in HL Mathematics)
Special entry requirements:
A level Mathematics
Length of course: 3 years

The BSc Business Statistics degree is a three-year programme aimed at mathematically able students who are interested in a career in business, applying statistical techniques. The programme will develop an appreciation of recent developments in business statistics and practice, and the links between the theory of the subjects and their practical application in industry. It combines intellectual challenge and relevance to current issues in mathematics, computing and business. The first two years are devoted to learning mathematical skills in the School of Mathematics, computing and statistical skills in the School of Computing Sciences and business and management skills in the Norwich Business School.

In the third year you will have the opportunity to strengthen your knowledge in mathematics and business whilst undertaking a significant project in applied statistics. It may be possible to earn exemptions from the first four professional actuarial examinations.

Year 1

The first year includes compulsory modules designed to develop a firm foundation in mathematical, computing, economic and business skills. Modules include:

- Pure Mathematics
- Accounting for Management Decisions
- Computing Fundamentals
- Organisational Behaviour

Year 2

This year continues to build upon the foundations developed in the first year. Study includes compulsory modules, with a further choice to be taken from the range of optional modules available.

This enables you to develop your specialist interests in the areas of computing, economics or business. Modules include:

- Statistical Methods
- Economics for International Business
- Database Systems
- Business Skills for Managers

Year 3

In the third and final year you will study some compulsory modules, including a substantial independent project in applied statistics. You will strengthen your knowledge in mathematics, statistics and professional actuarial practice, but you will also have the opportunity to study your chosen specialist areas in more depth. Modules include:

- Business Ethics
 - Management Science
 - Business and Company Law
- You will also have the opportunity to study a free choice advanced module in mathematics, computer science or management.

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