Regardless of which career you choose, your Sussex Mathematics degree will serve you well. If you study with us, you will be equipped with skills that are highly sought after by employers. You will not only get a first rate mathematics education, you will also have access to all the resources you need to successfully enter the graduate job market or secure a place for postgraduate study. Our close partnerships with local organisations give you invaluable industry insights, the chance to meet potential future employers and secure placement opportunities, and the opportunity to hone your practical and professional skills.

**OUR ALUMNI HAVE GONE ON TO CAREERS:**

**IN FINANCIAL SERVICES**
- Alpha FMC
- American Express
- Bank of England
- Clydesdale Bank
- Deloitte LLP
- GE
- HBOS
- IBM UK
- Siemens IT Solutions & Services Ltd
- Thomson Reuters

**IN TEACHING**
- Cardinal Newman Catholic School, Howe
- Cavendish School, Eastbourne
- Kingbridge Community College
- PGC Cambridge
- PGC Suek

We work closely with the University careers service to provide mathematics specific careers activities and to embed transferable skills into your degree. In the second year you will take an assessed careers module to help you to make successful applications, identify your skills and experience, research potential career options, and develop a personalised plan to reach your chosen vocational goal.

**APPLICANT VISIT DAYS**

All applicants who receive an offer and meet the advisory UCAS applications deadline are invited to attend an Applicant Visit Day. You will get a first-hand impression of what it is like to study here, a fuller picture of your chosen degree course, and an idea of what life is like as a student at the University of Sussex. There will be general and departmental talks, tours of the campus, accommodation and Brighton, and plenty of opportunities to meet lecturers and current students.

**MORE QUESTIONS?**

See our online prospectus at www.sussex.ac.uk/study/ug for more information, including the latest on:
- entry requirements
- how to apply
- fees, scholarships, bursaries and other financial support
- how to arrange to visit us.

**CONTACT US**

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www.sussex.ac.uk/maths

Facebook: www.facebook.com/sussexmaths
Twitter: www.twitter.com/sussexmaths

"There is a lovely sense of community amongst staff and students and the support is fantastic so you never feel alone."

**CLAIRE BLACKMAN, MATHEMATICS BSc**

"It’s important that our employees are able to handle vast amounts of data. Studying Maths at Sussex meant that I was familiar with this and confident enough to be able to take resulting insights to our clients based on my analysis."

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At Sussex we recognise that mathematics is the foundation of the natural sciences. It plays a major role in disciplines such as finance, economics, physics, computer science and life sciences.

OUR COURSES
We offer a range of courses for all levels, from foundation year to the fourth year MMath, and a number of courses with a minor subject, such as Finance or Economics.

Our degrees provide you with a foundation of core mathematical and statistical knowledge to ensure you are numerate, computer literate and able to think logically and quantitatively; while the range of courses we offer allows you to enhance your degree in different ways. All degrees have a common structure of examinations and assessment, and each module taken is assessed in the same term. This allows flexibility in your choice of modules and enables you to transfer between degree courses.

WE OFFER THE FOLLOWING COURSES:
• Mathematics degree (with a foundation year) BSc
• Mathematics MMath
• Mathematics with Research Placement MMath
• Mathematics with Finance BSc
• Mathematics with Finance MMath
• Mathematics with Research Placement MMath

ACCREDITATION:
All our courses are accredited by the Institute of Mathematics and its Applications (IMA). The MMath courses are accredited to meet the educational requirements of the Chartered Mathematician designation awarded by the IMA.

AWARD-WINNING RESEARCH
Our Mathematics research is ranked at world-leading, internationally excellent or internationally recognised (REF 2014). Our Maths research is making a world-changing impact in many fields.

THE OUTLINE OF THE MATHEMATICS CURRICULUM IS BASED ON 2018 ENTRY

YEARS
A choice of 6 options each semester from a wide range including:
• Probability Models
• Partial Differential Equations
• Linear & Geometrical Statistics
• Students on Mathematics with Economics take Understanding Global Markets plus 3 options from within Mathematics
• Students on Mathematics with Finance replace this module with: Financial Institutions and Markets

YEAR 1
• Foundation Programming (each subject to test)
• Foundation Mathematics A or Foundation Mechanics/Statistics and Decision Mathematics

YEAR 2
• Numerical Analysis 1
• Further Mathematics
• Financial Mathematics
• Financial Portfolio Analysis, Mathematical Models
• Monte Carlo Simulations
• Students on MMath Mathematics with Finance take 6 options from within Mathematics

YEAR 3
• Mathematical Research Project • Coding Theory
• Students on Mathematics with Economics take Behavioural Economics plus 3 options from within Mathematics
• Students on Mathematics with Finance take 4 options from within Mathematics

YEAR 4 MMath STUDENTS
• MMath Project and a choice of options including:
  • Financial Mathematics + Mathematical Modelling
  • Students on MMath Mathematics with Economics take 8 options from within Mathematics
  • Students on MMath Mathematics with Finance take 8 options from within Mathematics

• Further Mathematics

A choice of 1-2 semester options from: a language, Business in Society and Academic Development

YEAR 2
• Calculus of Several Variables + Analysis 2 + Introduction to Probability and Mathematical Finance
• Students on Mathematics with Economics replace this module with: Introduction to Economics

YEAR 3
• Differential Equations + Probability and Statistics
• Students on Mathematics with Economics replace this module with: Introduction to Economics

YEAR 1 SEMESTER
Autumn Semester
Statistical and Decision Mathematics
Foundation Mathematics A to Foundation Mechanic/ Foundation Programming (each subject to test)
Further Mathematics
A choice of 1-2 semester option from: a language, Business in Society and Academic Development

Spring Semester
Stochastic Processes + Financial Portfolio Analysis
Financial Mathematics
Mathematical Research Project + Coding Theory
Further Mathematics

OUR TEACHING
We learn through a combination of lectures and small group workshops. The year consists of two 11 week teaching semesters: Autumn semester (end of September – mid December) and Spring semester (end of January – beginning of May). A typical week for one module consists of three hours of lectures (typically in the form of one 2 hour lecture with 10 minute breaks and one 1 hour lecture). There are also 1 hour workshops which take the form of small group teaching (around 50 students) with one or two PhD students. All lectures have 1 1/2 hour after-lunchtime hours where they are available to answer any questions on the material covered in the module. A complete list of lecture notes, and solutions to weekly exercise sheets and past exam papers are available on-line for the majority of modules. You will do a final-year project for all our MMath courses, and you have the option to project a final-year project in all our BSc courses.

A typical module is assessed by an exam (80%), a mid-semester test (10%) and exercise sheets (10%).

STUDY ABROAD
Studying abroad makes you stand out from other students when entering the job market. Students on our MMath and BSc courses have the option of spending some of their time studying abroad. Out exchange partners include world leading universities such as University of California in the US, Erasmus University in Rotterdam, University of Tokyo in Japan, University of Science and Technology in Singapore, Eindhoven University, and Kyoto Universities in Japan and Nanyang Technological University in Singapore. Exchange students with North American universities are also available.

The course structure

MATHMATICS

The outline of the Mathematics curriculum is based on 2018 entry.