

## Undergraduate study

# Mathematics



## Key highlights



### Flexible courses

Choose from a broad range of exciting optional units and explore your interests in depth.



### Impressive facilities

The home of maths at Bristol is the fully refurbished Grade II-listed Fry Building, a UK-leading mathematics facility at the heart of campus.



### Research expertise

Maths at Bristol is in the top five nationally for the quality of its research, which directly informs your learning (*THE* analysis of REF 2014).



### Career progression

Bristol's mathematics degrees rank fourth nationally in terms of three-year graduate salaries (Longitudinal Education Outcomes data 2018).

## Why study mathematics at Bristol?

If you're driven by intellectual curiosity and enjoy the satisfaction of cracking difficult puzzles, our mathematics degrees are for you.

Whether you love dissecting subtle ideas in abstract mathematics or discovering practical applications such as in financial risk management, our courses will give you the core skills required to launch your commercial or academic career.

Our teaching is designed to help you make the transition to university-level study. Small-group tutorials and group project work allow you to collaborate with other students and make friends. You will work closely with your personal tutor during your first year, establishing a relationship that will guide you throughout your degree.

You can choose to study mathematics with a greater focus on statistics – including a statistics option specifically for finance – or combine the subject with philosophy, physics, computer science or economics. If you'd like to spend a year studying maths at a prestigious university overseas, choose one of our Study Abroad degrees.

### What you will study

Most single honours courses share the same first year. This rigorous introduction to the fundamentals of mathematics lays a firm foundation for your studies and informs your choice of units in later years. Units include applied maths, pure maths, and probability and statistics, as well as the opportunity to take part in group work.

In year two you will study core units as well as topics that are of particular interest to you, including algebra, combinatorics, metric spaces and statistics, meaning you can continue with a varied degree or choose to specialise. From year two onwards you may also take some units from outside the department.

In years three and four, you will have a very wide choice of options from across mathematics to best fit your interests. These may include topics in quantum mechanics, numerical analysis, logic, fluid dynamics and financial mathematics. MSci students will also complete a project-based unit in their final year.

Sample units may include:

- Modern Mathematical Biology
- Random Matrix Theory
- Complex Networks
- Financial Risk Management
- Quantum Chaos.

### Careers

Our graduates are highly sought after by employers for their strong analytical, communication and organisational skills. A significant number continue with postgraduate study, while many graduates find employment in accountancy, finance, management, teaching and a wide variety of other sectors.

## Find out more

Entry requirements, course structure and units  
[bristol.ac.uk/ug2021-maths](http://bristol.ac.uk/ug2021-maths)

'The breadth of units in maths is fantastic. Only after first year did I find I enjoyed statistics most. Luckily, I was able to take nearly all of my third- and fourth-year units focusing on my favourite areas of study.'

**Joseph** (MSci Mathematics)



A number of our courses are accredited by professional bodies such as the Institute of Mathematics and its Applications, the Royal Statistical Society and the Institute and Faculty of Actuaries, meaning you can work towards becoming a Chartered Mathematician or Graduate Statistician, or be exempt from some professional examinations.



Our friendly student community runs a vibrant maths society, Matrix, and the school regularly hosts conferences, visiting lectures and events.



Support for your studies is readily available, including our Maths Cafés where you can chat over course material with an upper-year undergraduate or postgraduate in a relaxed and informal setting.



From quiet study areas to collaboration spaces and even boards in the courtyard garden, the Fry Building is designed to support creative mathematics, wherever that light-bulb moment strikes. Take a virtual tour at [bristol.ac.uk/maths/fry-360](http://bristol.ac.uk/maths/fry-360).

## Courses

BSc / MSci Mathematics

BSc / MSci Mathematics with Statistics

BSc Mathematics with Statistics for Finance

MSci Mathematics with Study Abroad

BSc / MSci Mathematics with Study Abroad in a Modern Language

BSc Data Science

BSc Data Science with a Year in Industry

BSc Economics and Mathematics

BSc / MEng Mathematics and Computer Science

BSc / MSci Mathematics and Philosophy

BSc / MSci Mathematics and Physics

## Connect with the School of Mathematics

 @BristolUniMaths

### Photography

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This leaflet contains information for students planning to start university in autumn 2021. We have made every effort to ensure all details are correct at the time of going to press (May 2020). However, since this information is subject to change, you are advised to check the University's website, [bristol.ac.uk/ug-study](http://bristol.ac.uk/ug-study) for the latest updates. Any sample units listed are indicative and offerings may change due to developments in the relevant academic field. Unit availability varies depending on staffing, student choice and timetabling constraints.

