

## Applied Mathematics

University of Edinburgh

### Venues

King's Buildings Campus

### Content

Year 1:

You will take three compulsory courses: Introduction to Linear Algebra; Calculus and its Applications; and Proofs and Problem Solving. These are common to all our programmes and will take up half of your timetable.

They will allow you to build on your knowledge of pure mathematics and will introduce you to the more rigorous ways of mathematical thinking required at university level.

Some students will also take our online course, Fundamentals of Algebra and Calculus. This introductory course provides extra preparation in key topics from advanced mathematics.

You will also take courses in subjects other than mathematics.

You will receive support from MathsBase, our popular walk-in help centre, and from our Student Learning Advisor.

Year 2:

You will spend between half and two thirds of your time on mathematics.

You will take compulsory courses in pure mathematics, extending your knowledge of calculus and analysis, and will be introduced to the abstract ideas of group theory. You will also study courses in probability, statistics and computing and numerics.

In our Facets of Mathematics course, you will discover a range of modern applications of mathematics, studying topics such as fractals, image processing and mathematical biology. From this year onwards, you can use the MathsHub, our student-run facility in the James Clerk Maxwell Building, which is both a social centre and a work space.

Year 3:

You will focus on the main subjects of your programme. You will receive an excellent grounding in advanced mathematics, preparing you for the options available later in your programme.

During Year 3, you will study up to four compulsory mathematics Honours courses, but will also have the opportunity to start to choose option courses. Other compulsory modules include Numerical Linear Algebra and Numerical Ordinary Differential Equations and Applications. Additional option courses currently include Financial Mathematics, Introduction to Number Theory and Statistical Computing.

Year 4:

You will have a wide range of mathematics courses to choose from and you can follow a programme that suits your particular interests and career aspirations.

We offer a large selection of courses in areas of applied mathematics, statistics and operational research. You can also take options in pure mathematics and areas such as mathematical education, financial mathematics and mathematical biology.

You will take the course Numerical Partial Differential Equations, and then choose a selection of other available courses. Current courses include Fundamentals of Optimization, Applied Dynamical Systems and Incomplete Data Analysis.

Year 5:

During this year you will take courses at masters level. You will also complete a substantial project in applied mathematics, which will account for a third of your final year.

### Start Date

September

### Qualification

Degree

### Study Method

Full time

### Award Title

MMath

### UCAS Code

G121

### Course Length

5 years

### Faculty

College of Science and Engineering

### Department

Mathematics

### Entry Requirements

2023 entry requirements

**Standard entry:**

4 Highers at AAAB (minimum) but typically 5 Highers at AAAAA (by end of S5 preferred) including Maths at A plus English at National 5. Advanced Higher Maths is recommended.

Direct entry to year 2 is possible with 3 Advanced Highers at AAA including Maths. A science subject is recommended.

**Widening access entry:**

4 Highers at AABB (by end of S6) including Maths at A plus English at National 5. Advanced Higher Maths is recommended. Highers at BBB must be achieved in one sitting S4-S6.

### SCQF Level

11

### Progression Routes

«ProgressionRoutes»

### Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

### Address

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 Edinburgh  
 City of Edinburgh  
 EH8 9YL

### Website

[www.ed.ac.uk](http://www.ed.ac.uk)