

## Placement Year.

If you do a Placement Year course, you spend a year working at a leading organisation. You'll pay reduced fees for the year you're on placement, and earn a salary.

Organisations where maths students have done their placements include:

- Department for Work and Pensions
- Goldman Sachs
- HSBC
- Unilever



## Study abroad.

If you want to study abroad as part of your degree, you can apply to spend time in destinations including Australia, Canada, Europe, Hong Kong, New Zealand, Singapore and the USA after you've joined the University.

Universities that Sheffield maths students have gone to include:

- National University of Singapore
- University of Queensland, Australia
- University of Texas at Austin, USA
- University of Waterloo, Ontario, Canada

## Be Sheffield Made.

The information given here is based on the current academic year and plans we're making for future years of study. There may be some changes before you start your course. For the latest information, visit our website.

[www.sheffield.ac.uk/maths](http://www.sheffield.ac.uk/maths)  
[www.youtube.com/sciencesheffield](http://www.youtube.com/sciencesheffield)



The University Of Sheffield.



## Your Mathematics course.

UCAS codes:  
G100 / G103 / GG11 /  
GG12 / VG51

You'll spend the first years of your degree building up a solid foundation in pure maths, applied maths, and probability and statistics. Once you've covered the essentials, you'll have a huge range of options. From level two, there are also opportunities to take modules from other departments that aren't listed here.

MMath students spend a large part of their final year working on a research project to solve a complex research question.

### Level one.

#### Core modules:

- Foundations of Pure Mathematics
- Mathematics Core
- Mathematical Investigation Skills
- Mathematical Modelling
- Probability and Data Science

### Level two.

#### Core modules:

- Mathematics Core II
- Analysis and Algebra
- Differential Equations
- Statistical Inference and Modelling

#### Optional modules:

- Group Theory
- Mathematics and Statistics in Action
- Stochastic Modelling
- Scientific Computing and Simulation
- Vector Calculus and Dynamics

### Level three / four (MMath only).

These optional modules are available in level three and level four. Some can be taken in either year, but some are only available to MMath students in their final year. Visit our website to see the exact details for your course.

MMath students also have a core module in their final year: 'Project in Mathematics'.

#### Optional modules:

- Advanced Particle Physics
- Advanced Quantum Mechanics
- Advanced Topics in Algebra
- Advanced Topics in Waves and Fluid Dynamics
- Analytical Dynamics and Classical Field Theory
- Algebraic Topology
- Bayesian Statistics
- Bayesian Statistics and Computational Methods
- Codes and Cryptography
- Combinatorics
- Complex Analysis
- Financial Mathematics
- Functional Analysis
- Further Topics in Mathematical Biology
- Game Theory
- Generalised Linear Models
- Graph Theory
- Introduction to Relativity
- Machine Learning
- Mathematical Modelling of Natural Systems
- Medical Statistics
- Metric Spaces

- Probability and Random Graphs
- Probability with Measure
- Quantum Theory
- Sampling Theory and Design of Experiments
- Skills Development in Mathematics
- Stochastic Processes and Finance
- Time Series
- Topics in Mathematical Biology
- Topics in Mathematical Physics
- Topics in Number Theory
- Undergraduate Ambassadors Scheme