Your primary focus studying Mathematics will be understanding patterns and structure and developing the tools with which to analyse them. You will be able to describe and categorise processes involved in physical or biological phenomena.

• Stimulating environment, teaching by some world-class researchers.
• Wide variety of courses offered.
• Outstanding tutorial support, especially in first and second year.
• Mathematics was placed first in Scotland and seventh in the UK for student satisfaction in the National Student Survey 2017.

What will I study?
St Andrews has first-class researchers in the three main areas of the mathematical sciences: Pure, Applied and Statistics. Our courses reflect this diversity of interests and provide the focus for specialisation and project work.

Understanding patterns and structure, and developing the tools with which to analyse them, is the primary focus of all mathematics. Whether the patterns relate to physical or biological phenomena or to the structure of mathematics itself, the primary aim is to describe, categorise, and understand the processes involved. Much of your time here will be concerned with developing the analytical techniques and skills necessary to explore some of these fascinating areas of research.

First year
You will take between one and three first-year courses in mathematics. There is one compulsory mathematics course, which aims to extend and enhance your skills in algebraic manipulation and in differential and integral calculus, to develop your geometric insight and your understanding of limiting processes, and to introduce you to complex numbers and matrices.

Second year
We offer eight courses across the whole range of mathematics and statistics, of which you will take between four and eight, depending on your intended degree. These are designed to introduce you to the study of more advanced mathematics, opening up access to the diverse range of courses that we offer at higher levels.

Third and fourth years (Honours)
You have the option either to continue with a broad spread of pure mathematics, applied mathematics and statistics or to concentrate on just one or two of these areas. Examples of recent topics include: topology, fractal geometry, dynamical systems, solar theory, financial mathematics, statistical inference.

In your final year, you will be required to investigate a topic of your choice in some depth, submit a report and give a presentation on your work.

Entry requirements
We consider all aspects of every application, including context, equivalent qualifications and the Personal Statement. Offers may be higher or lower than the grades stated here. See page 169.

Requirements must include Mathematics.
If you are accepted onto a Single Honours degree in the Faculty of Science in the School of Mathematics & Statistics, then you can change on arrival between any of the three routes below, provided you meet the minimum likely grades.

First year entry
SQA Highers: AAB (A in Mathematics)
GCE A-Levels: A*AA (A* in Mathematics)
International Baccalaureate Points: 38, including HL6 in Mathematics.

Direct entry into second year
SQA Advanced Highers: AA, including Mathematics (in addition to Highers at AAAA – A in Mathematics).
International Baccalaureate Points: 39, including HL6 in Mathematics.

For Fast Track MMath degrees
SQA Advanced Highers: BB including Mathematics (in addition to Highers at AAAA – A in Mathematics).
GCE A-Levels: A*AA (A* in Mathematics)
International Baccalaureate Points: 39, including HL6 in Mathematics.
Mathematics & Statistics

www.st-andrews.ac.uk/subjects/mathematics
maths-admissions@st-andrews.ac.uk

a presentation, all under the supervision of a staff member who is a leading expert in the area of your project.

Integrated Masters (five years)
You combine undergraduate and Masters-level study into a single five-year programme, graduating with a Masters degree.

In addition to the third and fourth year courses described above, we teach around twenty more advanced courses, each of which is delivered by a research-active specialist in the field.

Direct entry into second year / Fast Track
Students with excellent Advanced Higher, A-Level or International Baccalaureate qualifications can enter directly into the second year of study.

Second year entry students bypass the first-year courses entirely. You will also have the opportunity to study abroad, after either one or two years’ study at St Andrews.

The MMath Fast Track route allows you to take a mixture of first and second year courses in your first year, including a specially-designed course to help rapidly bridge the gap between first and second year mathematics. In second year you study a mixture of second and third year courses, enabling you to complete the MMath degree in four years.

Our degree programmes:

Applied Mathematics
You will focus on real-world applications of mathematics, and learn how to apply your mathematical skills to solve problems in fields as diverse as biology, astrophysics, and finance.

Mathematics – See ‘What will I study?’ on the previous page.

Pure Mathematics
You will acquire the analytical techniques, clear logical thinking and deductive reasoning necessary to explore and understand mathematical problems. There are also many connections between pure mathematics and computer science, and you will have the opportunity to learn about these, if you wish.

Statistics
You will specialise in the branch of mathematics that focuses on collecting, analysing and presenting large quantities of numerical data. There are many practical applications for statistics, including fields such as science and medicine, government, business and education.

Study abroad
Mathematics and Statistics students (except Fast Track) participate in the University-wide St Andrews Abroad programme. For information about study abroad options, please see: www.st-andrews.ac.uk/study-abroad

Careers
Demand for mathematically trained graduates currently vastly outstrips the supply and hence career prospects are excellent in a variety of fields.

Recruiters seek numerate graduates whose skills include IT and computational skills, who are literate, enthusiastic and logical thinkers, all of these skills are provided in our degrees.

A Mathematics/Statistics degree is recognised as a substantial achievement in a demanding discipline.

Over 50% of our graduates gain employment with merchant banks, insurance companies, computer consultancies, the civil service, industry, and financial services organisations (for example, Goldman Sachs, KPMG, PwC and many more).

Many graduates go onto further study for an MSc and PhD, both of which are available here at St Andrews, and some go into teaching.

Scholarships
We offer a small number of scholarships of up to £1,000 to first year students, based on financial need.

Accreditation
Our degree programmes in Mathematics, Pure Mathematics and Applied Mathematics are accredited by the Institute of Mathematics and its Applications.

Our degree programmes in Statistics are accredited by the Royal Statistical Society in recognition of the “breadth, depth, quality and foundation” of these programmes as well as their statistical content.