Choosing a university and course that match your aspirations is always a challenge. We feel confident, however, that you will find The University of Nottingham a stimulating and enjoyable place in which to study mathematics. We have a strong commitment to teaching and research of the highest quality and have an excellent record in independent reviews.

A number of factors have helped us build this outstanding reputation. These include: offering a wide variety of modules across applied mathematics, pure mathematics and probability and statistics; flexible structures that offer opportunities to study exciting modern topics such as financial mathematics, mathematical medicine, cryptography and quantum information, as well as a diverse range of complementary subjects; a beautiful campus with excellent facilities; a huge variety of student clubs and societies and easy access to the local attractions in the city centre; courses that develop the intellectual and personal skills that employers actively seek; and above all, a caring environment in which all students can develop and prosper.

Our curriculum is dynamic: our Undergraduate Ambassador Scheme provides opportunities to hone skills in communicating mathematics; project-based modules, such as our Professional Skills module, encourage the development of teamworking and presentation skills; and our highest-level modules provide an insight into cutting-edge mathematics, reflecting the richness and variety of staff research interests.

We hope you will find this brochure helpful. Thank you for taking the time to consider us; we are confident that you will find studying at Nottingham rewarding and enjoyable and we look forward to welcoming you to the school soon.

Professor Ian Dryden
Head of the School of Mathematical Sciences
Why study mathematics at Nottingham?

Teaching quality
The school as a record to be proud of in terms of its teaching and research. We were rated ‘excellent’ in the most recent independent assessment of teaching and our lecturers have been recognised with honours such as the Lord Dearing Award, which recognises outstanding achievements of University of Nottingham staff in enhancing the student learning experience, and in the University’s Staff Oscars which are voted for by students. Three members of our staff were recognised in 2015; Dr Gerardo Adesso won the Best Research Supervisor category, Dr Stephen Cox was a runner-up in the Best All-Rounder Teaching category and our school manager Andrea Blackbourn was runner-up in the Best Support Staff category.

The school is also recognised for the quality of its research. In the most recent Research Excellence Framework (REF) the school sits in the top 10 nationally in mathematical sciences for ‘research power’ and ‘GPA’. This allows us to offer a wide range of specialised modules taught by academic staff who are world authorities in many areas of mathematics.

Research
In applied mathematics, our areas of research expertise include quantum gravity, wave chaos and disordered systems, quantum information theory and technologies, mathematical medicine and biology (eg for cancer, neuroscience, plant biology), industrial mathematics, fluid mechanics, scientific computation and solid mechanics.

In statistics we specialise in stochastic modelling of epidemics, statistical shape and image analysis, Bayesian multi-level modelling, probability theory and uncertainty quantification. Our research in pure mathematics includes number theory, arithmetic geometry, algebra, calculus of variations and complex analysis.

Although some of these terms may mean little to you at the moment, when you come to study with us you will have the opportunity to understand and develop an interest in one or more of these areas, since our research interests inform and shape the third and fourth years of our courses. These advanced modules allow you to come close to the frontiers of mathematical research.

State-of-the-art facilities
The school sits in a dedicated facility that was opened in autumn 2011. The building has been designed to contribute positively to the educational process by carefully integrating academics and students throughout all levels of the building, providing greater opportunities for social and academic interaction. Undergraduate facilities include a silent study workroom, a group workroom, a common room, breakout pods and a computer workroom.

Summer internships
Some of our students take advantage of the research expertise available in the school to do summer internships. These paid positions give students a chance to gain experience of hands-on mathematical research by working on a project with an academic member of staff and frequently result in publication of work in leading journals.

Student contribution
Students can also actively contribute to the school by participating in the Learning Community Forum, through which they can influence the running and development of our modules and courses, and by joining the Mathematics Society, which offers activities such as public lectures as well as organising social events for mathematical sciences students.
### Degree courses

<table>
<thead>
<tr>
<th>Degree course</th>
<th>UCAS code</th>
<th>Duration</th>
<th>A levels</th>
<th>IB</th>
<th>Typical intake</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Single honours</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSc Mathematics</td>
<td>G100</td>
<td>3 years</td>
<td>A<em>AA/AAA/ A</em>AB†</td>
<td>36</td>
<td>120</td>
</tr>
<tr>
<td>MMath Mathematics</td>
<td>G103</td>
<td>4 years</td>
<td>A<em>AA/AAA/ A</em>AB†</td>
<td>36</td>
<td>80</td>
</tr>
<tr>
<td>BSc Mathematics (International Study)</td>
<td>G104</td>
<td>4 years</td>
<td>A<em>AA/AAA/ A</em>AB†</td>
<td>36</td>
<td>10</td>
</tr>
<tr>
<td><strong>Major/minor honours</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSc Financial Mathematics</td>
<td>G120</td>
<td>3 years</td>
<td>A<em>AA/AAA/ A</em>AB†</td>
<td>36</td>
<td>15</td>
</tr>
<tr>
<td><strong>Joint honours</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSc Mathematics and Economics</td>
<td>GL11</td>
<td>3 years</td>
<td>A<em>AA/AAA/ A</em>AB†</td>
<td>36</td>
<td>15</td>
</tr>
<tr>
<td>BSc Mathematics and Management Studies</td>
<td>GN12</td>
<td>3 years</td>
<td>A<em>AA/AAA/ A</em>AB†</td>
<td>36</td>
<td>10</td>
</tr>
</tbody>
</table>

†Three A levels, or equivalent, including mathematics at grade A. Applicants may be asked for one of: A* in A level mathematics, A in A level further mathematics or A in AS level further mathematics. STEP is not required but may be taken into consideration when offered.

We expect typical offers to lie within the range indicated in the table. For the most up to date typical offer, please see [www.nottingham.ac.uk/ugstudy](http://www.nottingham.ac.uk/ugstudy)

### Related courses

- BSc Data Science
- BSc/MSc Mathematical Physics
- BSc/MSci Natural Sciences
- Science with Foundation Year

For more information on these courses, please see [www.nottingham.ac.uk/ugstudy](http://www.nottingham.ac.uk/ugstudy)

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### Qualifying year

In all our courses, year one is a qualifying year. This means that although the work is crucial as a foundation for succeeding years, your marks will not count towards your final degree classification. You must, however, be successful in year one in order to progress to year two. Marks that you then obtain in years two and three (and four, if applicable) will count towards your degree.

### Course structure

We offer a range of courses in which mathematics can be studied on its own or in combination with other subjects. Courses offering mathematics as a single subject include the four-year BSc Mathematics (International Study) in which you can spend a year studying at one of our overseas partner universities, while our other courses allow you to spend a semester abroad.

Please note that the single honours courses also allow you to take modules in other subject areas.

Our BSc Financial Mathematics course combines mathematics as a major subject, accounting for about 70% of your studies, with finance as a minor subject. Our other combined courses offer an equal split with the second subject.

### Three or four years?

Transfer between the three-year mathematics BSc and four-year mathematics MMath is straightforward in the first two years. If you are unsure at this stage which option is better for you, it may help you to know that we treat applicants to both courses in the same way during the admissions process. The course structures are identical until the third year of study.

The BSc courses provide you with a broad background in your chosen subjects, with the opportunity to specialise. The MMath course allows you to study particular areas to a deeper level, enabling you to complete a substantial dissertation in the final year on a subject close to the frontiers of research.

### A level preparation

Our courses are designed so that they can be taken by a good student with a minimum of grade A in A level mathematics (or equivalent). We will not assume that you have taken further mathematics or indeed any particular mathematics modules that are optional at A level.

If you have not taken further mathematics at A level you may find that you have to work harder in the first year than some of your fellow students, as more of the topics you encounter may be new to you. You can be assured, however, that you will not be disadvantaged in the long term. Students entering without further mathematics are on an equal footing by the end of the first year and do just as well in subsequent years.

If you have taken further mathematics at A level then you will still find plenty to challenge you. The first-year syllabus contains material that is new to all students and even topics that you have already encountered will be given a new slant.
Getting the foundations right
A key element in all our courses is the year-one mathematics core. This is an integrated set of modules designed to provide you with a solid foundation for study in later years, and to help you with the transition to university-style learning.

You will find that the core allows you to consolidate and extend your knowledge of A level mathematics. It will also introduce you to new topics that will be important later on in your studies with us.

On most courses, besides the mathematics core you will take some additional mathematics modules in year one, in at least one subject area from pure mathematics, applied mathematics and probability and statistics. You need not have studied optional modules in any of these three subject areas at A level in order to take corresponding year-one modules.

What’s in the maths core teaching syllabus?
The core contains some material that will be familiar from school and some that will be new. Of course, familiar topics may be given a new slant here at the University.

The core includes such topics as:
• foundations (eg language of mathematics, analysis, scientific computation)
• calculus (eg functions of several variables)
• linear mathematics (eg vectors, matrices, systems of linear equations, complex numbers)

Accreditation
All of our single honours mathematics courses and our financial mathematics course are accredited by the Institute of Mathematics and its Applications (IMA). Specific pathways in our courses are also accredited by the Royal Statistical Society (RSS).

“I chose to study maths at Nottingham because of the great level of support that the academic staff provide in your first year. Knowing the fact that the school had a dedicated teaching support officer made it easier for me to make my choice of studying at Nottingham.”

Sanaa Chaudhry/BSc Mathematics (pictured right)
BSc/MMath Mathematics

Mathematics degrees at Nottingham encompass an enormous variety of topics, ranging from the abstract ideas of algebra and number theory to financial applications of statistics and the mathematical modelling of biological phenomena. While no student is expected to study all the topics available, the wide variety of modules on offer means that you will find plenty to keep you interested, whether your particular preferences lie in probability and statistics or in pure or applied mathematics.

Furthermore, a mathematics degree is highly valued by employers and leads to a wide variety of stimulating and financially rewarding careers, so you can look forward to a bright future while studying something that you enjoy.

We offer three courses in which mathematics is taken as a single subject: a three-year BSc offering a broad education in mathematics with the ability to specialise; a four-year MMath including a substantial dissertation and more advanced study of pure mathematics, in a specialisation of your choice; and a four-year MMath/MSc Mathematics with Statistics (which is accredited by the Royal Statistical Society), obtained by applying for either the G100 or G103 course and then choosing specified modules during your degree.

Options and modules

Students on the G100 and G103 courses can apply to spend a semester studying abroad.

International study

The programme for the four-year BSc with an international study year (G104) is the same as for the three-year BSc (G100) but includes an additional year of study at an overseas university between the second and final years. Students on other mathematics courses may apply to spend a semester abroad.

Placement on the year abroad, which must be passed but does not contribute directly to degree classification, is competitive and dependent upon having a sufficiently strong academic record in years one and two. Students on the BSc Mathematics (International Study) who are not accepted for overseas study will be offered a transfer onto the three-year BSc, subject to normal progression rules.

Mathematics with Statistics

BSc/MMath Mathematics students who do well enough in enough modules in statistics may opt for a BSc/MMath Mathematics with Statistics degree. These courses are accredited by the Royal Statistical Society (RSS).

Key features of the courses include:
- flexibility in choice of modules across a wide range of topics
- the possibility to opt for a named degree such as Mathematics with Statistics (which is accredited by the Royal Statistical Society), obtained by applying for either the G100 or G103 course and then choosing specified modules during your degree
- students on the G100 and G103 courses can apply to spend a semester studying abroad.

Typical modules for G100/G103/G104

<table>
<thead>
<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three (year four for G104)</th>
<th>Year four (MMath only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core mathematics modules (60 credits):</td>
<td>Optional modules (100-120 credits mathematics; 0-20 credits other) include:</td>
<td>Optional modules (100-120 credits mathematics; 0-20 credits other) include:</td>
<td>Core module (40 credits):</td>
</tr>
<tr>
<td>• Analytical and Computational Foundations</td>
<td>• Algebra and Number Theory</td>
<td>• Advanced Quantum Theory</td>
<td>• Dissertation project</td>
</tr>
<tr>
<td>• Calculus</td>
<td>• Complex Functions</td>
<td>• Coding and Cryptography</td>
<td>Optional modules (60-80 credits mathematics; 0-20 credits other) include:</td>
</tr>
<tr>
<td>• Linear Mathematics</td>
<td>• Introduction to Mathematical Physics</td>
<td>• Communicating Mathematics</td>
<td>• Advanced Fluid Mechanics</td>
</tr>
<tr>
<td>Other modules (60 credits) include:</td>
<td>• Introduction to Numerical Methods</td>
<td>• Differential Equations</td>
<td>• Algebraic Geometry</td>
</tr>
<tr>
<td>• Foundation modules in pure mathematics, applied mathematics and probability and statistics</td>
<td>• Mathematical Analysis</td>
<td>• Fluid Dynamics</td>
<td>• Applied Nonlinear Dynamics</td>
</tr>
<tr>
<td></td>
<td>• Modelling with Differential Equations</td>
<td>• Game Theory</td>
<td>• Biomedical Statistics</td>
</tr>
<tr>
<td></td>
<td>• Probability Models and Methods</td>
<td>• Mathematical Finance</td>
<td>• Black Holes</td>
</tr>
<tr>
<td></td>
<td>• Professional Skills for Mathematicians</td>
<td>• Mathematical Medicine and Biology</td>
<td>• Complex Analysis</td>
</tr>
<tr>
<td></td>
<td>• Statistical Models and Methods</td>
<td>• Medical Statistics</td>
<td>• Computational Statistics</td>
</tr>
<tr>
<td></td>
<td>• Vector Calculus</td>
<td>• Number Fields and Galois Theory</td>
<td>• Elasticity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Quantum Chaos and Disorder</td>
<td>• Quantum Information Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Rings and Modules</td>
<td>• Time Series and Forecasting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Topics in Scientific Computation</td>
<td>•</td>
</tr>
</tbody>
</table>

For more detailed module information please visit the individual course listings at www.nottingham.ac.uk/ugstudy
Mathematical sciences students in the atrium of the Mathematical Sciences Building.

BSc Financial Mathematics

The financial world is heavily reliant on mathematics and on the skills of analytical reasoning and problem solving that a mathematical education offers. This course is designed to enable you to develop a thorough grounding in mathematics, with emphasis on aspects that are of particular relevance to finance, while at the same time enabling you to study a broad range of topics within finance itself.

Key features of the course include:
• having around 70% of the modules dedicated to mathematics, with the remaining 30% being spread across a range of financial and economics topics
• having a mathematics side of the course that is oriented towards financial mathematics as well as probability and statistics – modules can also be taken in other areas of mathematics
• no requirement to have previously studied finance or related subjects
• being designed to provide you with specific knowledge but also mathematical techniques and skills suitable for entry to a wide range of careers in the financial world and elsewhere
• students on this course can apply to spend a semester studying abroad

Typical modules for G120

<table>
<thead>
<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core mathematics modules (60 credits):</td>
<td>Mathematics modules (90 credits):</td>
<td>Mathematics modules (60 credits):</td>
</tr>
<tr>
<td>• Analytical and Computational Foundations</td>
<td>• Differential Equations and Fourier Analysis</td>
<td>• Mathematical Finance</td>
</tr>
<tr>
<td>• Calculus</td>
<td>• Introduction to Numerical Methods</td>
<td>• Optimization</td>
</tr>
<tr>
<td>• Linear Mathematics</td>
<td>• Mathematical Analysis</td>
<td>• Vocational Financial Mathematics</td>
</tr>
<tr>
<td>Probability and statistics modules (20 credits):</td>
<td>Probability Models and Methods</td>
<td>Optional mathematics modules (20-40 credits) include:</td>
</tr>
<tr>
<td>• Probability</td>
<td>• Professional Skills for Mathematicians</td>
<td>• Coding and Cryptography</td>
</tr>
<tr>
<td>• Statistics</td>
<td>• Statistical Models and Methods</td>
<td>• Game Theory</td>
</tr>
<tr>
<td>Finance modules (40 credits):</td>
<td>Finance modules (30 credits):</td>
<td>• Statistical Inference</td>
</tr>
<tr>
<td>• Business Finance</td>
<td>• Computational Finance</td>
<td>• Stochastic Models</td>
</tr>
<tr>
<td>• Financial Accounting</td>
<td>• Financial Management</td>
<td>• Time Series Analysis</td>
</tr>
<tr>
<td>• Management Accounting and Decisions</td>
<td>• Financial Reporting</td>
<td>Optional finance modules (20-40 credits) include:</td>
</tr>
<tr>
<td>• Microeconomics for Business</td>
<td></td>
<td>• Corporate Finance</td>
</tr>
</tbody>
</table>

For more detailed module information please visit the individual course listings at www.nottingham.ac.uk/ugstudy
Joint honours

BSc Mathematics and Economics

The Mathematics and Economics course provides a broad education in mathematics, and substantial degree-level studies in economics. The course combines the flexible skills of mathematics, such as problem solving and numeracy, with valuable subject knowledge in economics. This combination is attractive to employers and the valuable subject knowledge in economics.

In the first year, you will take the core mathematics modules common to all of our courses along with foundation modules in probability and statistics; the economics side includes macroeconomics and microeconomics.

In subsequent years, you will choose modules equally split between the two subjects.

Key features of the course include:
- being aimed at mathematically minded students seeking to enter the business or financial sector
- no requirement to have previously studied economics
- a wide range of options in mathematics and economics
- students on this course can apply to spend a semester studying abroad

Below is the typical module structure for the BSc Mathematics and Economics course:

<table>
<thead>
<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core mathematics modules (60 credits):</strong></td>
<td><strong>Optional mathematics modules (60 credits) include:</strong></td>
<td><strong>Optional mathematics modules (60 credits) include:</strong></td>
</tr>
<tr>
<td>• Analytical and Computational Foundations</td>
<td>• Coding and Cryptography</td>
<td>• Introduction to Numerical Methods</td>
</tr>
<tr>
<td>• Calculus</td>
<td>• Game Theory</td>
<td>• Probability Models and Methods</td>
</tr>
<tr>
<td>• Linear Mathematics</td>
<td>• Mathematical Finance</td>
<td>• Statistical Models and Methods</td>
</tr>
<tr>
<td><strong>Probability and statistics modules (20 credits):</strong></td>
<td><strong>Optional management modules (20 credits):</strong></td>
<td><strong>Management modules (40 credits):</strong></td>
</tr>
<tr>
<td>• Probability</td>
<td>• Probability</td>
<td>• Contemporary Economic Policy</td>
</tr>
<tr>
<td>• Statistics</td>
<td>• Statistics</td>
<td>• Designing and Managing Organisations</td>
</tr>
<tr>
<td><strong>Economics modules (40 credits):</strong></td>
<td>• Economics</td>
<td>• Economics of Business Decisions</td>
</tr>
<tr>
<td>• Introduction to Microeconomics</td>
<td>• Business Economics</td>
<td>• Organising and Managing in Practice</td>
</tr>
<tr>
<td>• Introduction to Macroeconomics</td>
<td>• Consumers and Markets</td>
<td><strong>Optional management modules (20 credits) include:</strong></td>
</tr>
<tr>
<td><strong>Optinal mathematics modules (60 credits):</strong></td>
<td>• Entrepreneurship and Business</td>
<td>• Corporate Entrepreneurship and Innovation Management</td>
</tr>
<tr>
<td>• Complex Functions</td>
<td>• Organisational Behaviour</td>
<td>• Economometrics of Organisation</td>
</tr>
<tr>
<td>• Introduction to Numerical Methods</td>
<td></td>
<td>• Introductory Econometrics</td>
</tr>
<tr>
<td>• Mathematical Analysis</td>
<td></td>
<td>• Introduction to Finance</td>
</tr>
<tr>
<td>• Mathematical Structures</td>
<td></td>
<td>• International Trade Policy</td>
</tr>
<tr>
<td>• Probability Models and Methods</td>
<td></td>
<td>• Advanced Financial Economics</td>
</tr>
<tr>
<td>• Statistical Models and Methods</td>
<td></td>
<td>• International Trade Policy</td>
</tr>
<tr>
<td>• Topics in Statistics</td>
<td></td>
<td>• Numerical Methods in Economics</td>
</tr>
</tbody>
</table>

For more detailed module information please visit the individual course listings at www.nottingham.ac.uk/ugstudy

BSc Mathematics and Management Studies

The ability to reason quantitatively and logically is at the heart of many management decisions. This course is designed to equip you with the skills needed to succeed in a wide range of business and management careers. You will receive a broad education in mathematics, which will be integrated with the study of the theory and practice of business management and entrepreneurship.

In the first year, you will take the core mathematics modules along with modules in probability and statistics; management topics include entrepreneurship and business.

In subsequent years, you will choose modules in a roughly equal split between the two subjects.

Key features of the course include:
- being suited to careers in management consultancy, accountancy or as a city analyst
- the opportunity to study a wide range of topics in mathematics and management
- no requirement to have previously studied management or business studies
- students on this course can apply to spend a semester studying abroad

Below is the typical module structure for the BSc Mathematics and Management Studies course:

<table>
<thead>
<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core mathematics modules (60 credits):</strong></td>
<td><strong>Optional mathematics modules (60 credits) include:</strong></td>
<td><strong>Optional mathematics modules (60 credits) include:</strong></td>
</tr>
<tr>
<td>• Analytical and Computational Foundations</td>
<td>• Introduction to Numerical Methods</td>
<td>• Coding and Cryptography</td>
</tr>
<tr>
<td>• Calculus</td>
<td>• Probability Models and Methods</td>
<td>• Game Theory</td>
</tr>
<tr>
<td>• Linear Mathematics</td>
<td>• Statistical Models and Methods</td>
<td>• Mathematical Finance</td>
</tr>
<tr>
<td><strong>Probability and statistics modules (20 credits):</strong></td>
<td><strong>Management modules (40 credits):</strong></td>
<td>• Statistical Inference</td>
</tr>
<tr>
<td>• Probability</td>
<td>• Contemporary Economic Policy</td>
<td>• Stochastic Models</td>
</tr>
<tr>
<td>• Statistics</td>
<td>• Designing and Managing Organisations</td>
<td>• Topics in Statistics</td>
</tr>
<tr>
<td><strong>Economics modules (40 credits):</strong></td>
<td><strong>Management modules (40 credits):</strong></td>
<td><strong>Optional management modules (20 credits) include:</strong></td>
</tr>
<tr>
<td>• Introduction to Management</td>
<td>• Contemporary Economic Policy</td>
<td>• Advertising, The Media and Marketing Communications</td>
</tr>
<tr>
<td>• Introduction to Finance</td>
<td>• Designing and Managing Organisations</td>
<td>• Applied Econometrics</td>
</tr>
<tr>
<td>• Introductory Econometrics</td>
<td>• Economics of Business Decisions</td>
<td>• Corporate Finance</td>
</tr>
<tr>
<td>• International Trade Policy</td>
<td>• Organising and Managing in Practice</td>
<td>• Exploring Perspectives in Entrepreneurship</td>
</tr>
<tr>
<td>• Advanced Financial Economics</td>
<td><strong>Optional management modules (20 credits) include:</strong></td>
<td>• Technology Entrepreneurship in Practice</td>
</tr>
<tr>
<td>• Microeconomic Theory</td>
<td>• Corporate Entrepreneurship and Innovation Management</td>
<td>• Strategic Management</td>
</tr>
<tr>
<td>• Monetary Economics</td>
<td>• Economometrics of Organisation</td>
<td>• Introduction to Management Science for Business Decisions</td>
</tr>
</tbody>
</table>

For more detailed module information please visit the individual course listings at www.nottingham.ac.uk/ugstudy
How will I study?

Teaching and learning
You will learn through a wide variety of activities, including formal lectures, but also small-group tutorials, problem classes and, increasingly important at university, self-directed study.

Some optional modules may not involve lectures at all and might instead be centred, for example, on working in groups or individually on projects, supported by regular meetings with a member of staff, or even on time spent teaching mathematics under supervision in a local school.

Lecture-based modules
These modules will form the backbone of your studies in the first year, when you will be taking six modules at any given time. Each module will typically involve two hours of formal lectures per week with another hour devoted to supporting activities such as tutorials, problems classes or computer labs, adding to about 18 hours of timetabled activity per week. In later years, you may take fewer, larger modules and you will also have the opportunity to take modules based on activities such as project work.

Some of our lectures are recorded and the resulting audio-visual materials placed on iTunesU, YouTube and The University of Nottingham U-Now facility, allowing you to go back and revisit topics in your own time. See www.nottingham.ac.uk/podcasts and unow.nottingham.ac.uk

Self-directed study
Throughout your degree, self-directed study will play a central role in your learning. Timetabled activities, such as lectures, are very important and will introduce you to the key new ideas, but in order to fully understand any mathematical topic, it is important that you spend time thinking about the underlying ideas and trying problems for yourself.

Sometimes it will be most appropriate to do this individually, but it can also be very helpful to work with groups of friends. The recently built Mathematical Sciences Building is ideal for this purpose, offering a number of breakout rooms and common areas in which students can meet and discuss their work.

Pastoral support
The culture of studying you will encounter at university, with its greater emphasis on autonomy, and taking advantage of the maturity of its students, is a much more effective (and enjoyable!) way of learning in the long term. It can seem daunting, however, having to adjust to this new freedom from the more structured environment of school. For that reason, we have a number of measures in place to help our students make the transition successfully.

Personal tutor
Throughout your degree you will have a tutor on hand to offer support on matters such as module choice and career direction. Your tutor will meet you in small groups of four to six students in the first year to work though the material covered in core modules and will generally be available to help you with any questions you have about your modules or other issues.

Teaching officer
The school also employs a Teaching Officer who has experience of teaching mathematics at a variety of levels and is therefore ideally qualified to help students adapt to the style and content of university mathematics. The Teaching Officer runs drop-in sessions where students can get additional help for their first-year modules if they think they need it and can, for example, help you catch up if illness or other problems have prevented you from attending lectures.

Library and computing services
At Nottingham, you will benefit from access to an extensive collection of printed and online library resources.

In addition, you will have both on and off-campus access to a very wide range of databases, ejournals and ebooks, relevant both to your subject and any modules in other subjects.

Key Information Sets
Key Information Sets (KIS) are comparable sets of information about full or part-time undergraduate courses and are designed to meet the information needs of prospective students. All KIS data is published on the Unistats website: www.unistats.co.uk

For Nottingham’s KIS data, please see individual course entries at: www.nottingham.ac.uk/ugstudy
All undergraduate degree programmes in the University are modular, which means you undertake modules of study with assessment at the end of each semester.

Assessment methods
Lecture-based modules will typically be assessed primarily by an exam at the end of the semester in which they finish. The final mark for these modules may also have a smaller component arising from interim tests or coursework. Some of our optional modules are continuously assessed, typically those based on project work, learning professional skills or gaining teaching experience.

Modules and credits
Modules are self-contained units of study which may run either for a semester or a year. The majority of modules are worth 10 or 20 credits each and you will study modules totalling 120 credits in each year. This system gives you some flexibility in the way you construct your course.

Some modules are compulsory; others are optional. Some modules are prerequisites for others. Your personal tutor will be available throughout your time at Nottingham to advise and guide you through the academic pathways available.

The teaching year
The year is divided into two semesters. The first semester lasts for 13 weeks, with 11 weeks for teaching and revision and two weeks for assessment. The second semester follows the same pattern, but there is an additional period at the end to complete the assessment process and to enable returning students to discuss their results with tutors and begin to plan the next session’s work.

Although the teaching year is divided into two semesters for organisational purposes, this is fitted into the traditional pattern of three terms: one before Christmas; one between Christmas and Easter; and one after Easter.

Your final degree classification
The emphasis in the first year is on helping you to adjust to university study and on giving you a strong mathematical grounding for the more specialised material you will encounter later in your degree.

The marks you get in first year do not count towards your final degree classification: you simply need to do well enough to demonstrate that you are sufficiently prepared for further study.

On most BSc courses your second year counts around half as much as the third year (the marks are used in the ratio 33:67). The exception to this is the four-year BSc Mathematics (International Study), in which the third year, spent abroad, must be passed but does not count towards your final degree. For this degree, the second and fourth years are weighted in the ratio 33:67.

For students on the MMath course, marks gained in the second, third and fourth years are used in the ratio 1:2:2.
Careers and employment prospects

The University of Nottingham is consistently named as one of the most targeted universities by Britain’s leading graduate employers*. Our Careers and Employability Service (see page 20) can help you find employment through invitations to recruitment sessions by employers, individual careers advice and a vacancy information service. A faculty careers consultant who is an expert in the career paths taken by our graduates comes to the school each week and holds drop-in sessions for all students who would like careers advice and information.

In addition, the school has a specialised careers programme to help you develop your CV and start planning early for your future career. Mathematics is a wide-ranging and versatile subject and the list of careers open to you as a mathematics graduate is extensive. Some graduates make specific use of mathematics while others use the more general skills they have gained, such as analysis and problem solving, high-level numeracy and a capacity to learn independently.

Graduate career destinations
Our graduates are in high demand from prospective employers and have been well received into a broad range of careers in commerce, industry, the professions and government. The University of Nottingham is one of a small number of leading universities whose graduates are targeted for recruitment by various top companies. Of our graduates entering the employment market directly after graduation, typical recent destinations are:

- financial services (e.g. accountancy, actuarial work, banking)
- IT (e.g. programming, systems analysis, software engineering)
- industrial (e.g. management, research and development, retail)
- government (e.g. civil service, taxation)

Average starting salary
In 2013, 91% of first-degree graduates in the school who were available for employment had secured work or further study within six months of graduation. The average starting salary was £23,181 with the highest being £35,000.**

Recent graduates
Recent graduates include Sarah Abid – Accountant, Deloitte; Jennifer Carter – secondary school teacher; Stephanie Hind – Auditor, Cooper Parry; Priya Lanka – Credit Risk Analyst, Bank of Ireland; Peter Underdown – Financial Management Trainee, Nottinghamshire County Council.

Postgraduate research
You might decide to continue your studies at postgraduate level, either here at Nottingham or elsewhere. In previous years, our students have achieved higher degrees in subjects such as mathematics, computing, education and engineering. Each year some of our best students choose to stay at Nottingham and join our lively group of postgraduate research students in the School of Mathematical Sciences.

Our seven research groups – Algebra and Analysis; Industrial and Applied Mathematics; Mathematical Medicine and Biology; Mathematical Physics; Number Theory and Geometry; Scientific Computation; and Statistics and Probability – each offer a large number of diverse and interesting research projects. Please see our website for further details: www.nottingham.ac.uk/mathematics/research

Careers and Employability Service
Our Careers and Employability Service, which is based on University Park Campus, offers an extensive range of careers-oriented services, including CV-writing sessions, interview advice, presentations by major employers and general career advice. As a University of Nottingham graduate, you will receive lifelong support from the service. This means that you can ask a careers adviser to look over your job application by email or Skype, or in person, and you can also access a database of graduate vacancies. For more information see www.nottingham.ac.uk/careers

The Nottingham Advantage Award
The University’s Advantage Award is a programme of activities developed to recognise and reward extracurricular responsibilities. It allows you to gain recognition for participating in a wide range of activities accredited by the University and delivered by top graduate employers, professional services and members of staff of the University. It also shows employers that you have gone above and beyond your degree and gained valuable transferable skills. For further information, please visit www.nottingham.ac.uk/advantageaward

** Known destinations of full-time home and EU first-degree graduates, 2013/14.
Student profile

"I visited Nottingham for an open day and was amazed by the campus and the student opportunities that were available. I enjoy the fact that my joint honours degree provides me with problem-solving skills and a knowledge of how the markets work."

Loukia Pantelli/BSc Mathematics and Management Studies

Find out more about Loukia's experience at www.nottingham.ac.uk/mathematics/profiles

Loukia is preparing for a tutorial in the Mathematical Sciences Building.
Dr Stephen Cox is an Associate Professor and Reader in Applied Mathematics – here he talks about what he enjoys most about mathematics and the research projects he is involved with.

“I did a mathematics degree at the University of Oxford, then a PhD in Applied Mathematics at the University of Bristol. After my PhD I did three post-docs: two in Adelaide, Australia and one at Cornell University, USA. Then I worked for nine years at The University of Nottingham, starting out as a lecturer then getting promoted to senior lecturer, before moving to the University of Adelaide for three years. Finally, in 2006, I moved back to The University of Nottingham as an associate professor and reader, where I’ve been ever since.

I love the fact that mathematics can be applied to almost any aspect of life and give new insights. My specialism is applied mathematics, which is an enormously broad area. I started out specialising in fluid mechanics (How do you predict the weather? How do you mix two paints together – efficiently?) and now mostly work in applications of mathematics to electronic engineering. I tend to interact with engineers quite a lot – they have interesting practical problems which give rise to interesting mathematical problems. That’s where I come in. There’s a great sense of satisfaction when a fairly abstract mathematical calculation ends up telling you something new that’s of practical interest.

I enjoy teaching. Nottingham attracts very good students and it can genuinely be great fun to interact with them. There’s nothing better than a difficult question from a good student, especially when the question makes me re-examine a subject I’ve been teaching for a while! I also love doing my research, especially in collaboration with academics from other disciplines and other countries. There is a real challenge in convincing non-mathematicians that mathematics can be useful to them. I’ve worked with mathematicians and engineers from many countries, most recently from Singapore and South Africa. I’ve recently made trips to both countries – these were academically fruitful and culturally fascinating.

One of my current research projects involves what are called class-D amplifiers. These are very efficient little amplifiers that are present in phones, tablets, laptops, and so on – any mobile electrical device where battery life is important. My research so far has focused on trying to tweak the design to reduce the distortion generated by the amplifier, so it delivers the best sound quality. One of the highlights of my research was accidentally inventing a new design for a class-D amplifier, based on just doing the mathematics. After some initial scepticism, my collaborator – a professional designer of class-D amplifiers – built a prototype, and it really did work!”

Dr Stephen Cox
Associate Professor and Reader in Applied Mathematics
Admissions Tutor BSc/MMath Mathematics
You’ve read lots about the degree programme you’re interested in, now it’s time to explore life outside the lecture theatre. There’s so much for you to get involved in and explore at the University and around the city. We are proud to be one of the leading universities for student experience in the UK*, which will ensure that you have a university experience you’ll never forget.

Your University of Nottingham – at home and around the world
We are proud of our stunning campuses and are continually investing in our grounds, buildings and amenities to ensure that you only have the best surroundings in which to live and study. Our main UK campuses have a mix of state-of-the-art facilities, including sports centres, places to eat and excellent learning facilities on every campus. We’ve made getting from campus to campus as easy as possible and students can benefit from our free inter-campus Hopper Bus, so you’re never far away from the striking architecture and innovative technology of Jubilee Campus, the rolling parkland and period buildings at University Park, or the cutting-edge features of Sutton Bonington.

The University of Nottingham is Britain’s global university with campuses in the UK, China and Malaysia. We also have links with more than 300 universities in over 40 countries, adding a truly global flavour to your degree and giving you the chance to explore the world. Find out more: www.nottingham.ac.uk/about/campuses

Your new home from home
At Nottingham we offer a range of different accommodation options, rooms are available as single or shared, en suite or shared bathroom, all the way through to studio flats, and vary from self-catered to fully catered (19 meals per week). We also offer a guarantee of University accommodation for one year to all new full-time undergraduate students, subject to the following conditions: you firmly accept your course place at Nottingham, accept your offer of accommodation by the deadline given in your offer letter, and have an unconditional status no later than 31 August in the year you intend to begin your studies. If you are a new, full-time undergraduate student who is classified as international for fee purposes, this guarantee applies for three years**. For more information, including a breakdown of pricing, see www.nottingham.ac.uk/accommodation

Your support network
Throughout your university journey there will be numerous people on hand to support you, including tutors and dedicated staff who will be able to advise you on various aspects of life as a student. We have Student Services Centres on all three of our UK campuses, which provide a range of support, information and specialist services to enhance your student experience. This support includes:

• Academic Support – can provide practical advice on areas of academic study; the service also provides specialist academic support for students with dyslexia, dyspraxia and other specific learning difficulties
• Disability Support – coordinates support and access arrangements for students with a disability or long-term medical condition
• Financial Support – provides information on the sources of finance available from government agencies and the University itself, and gives advice about financial matters
• Student Services – also advise on issues ranging from childcare, counselling and health to international student support, chaplaincy and faith support, as well as offering advice on paying your tuition and accommodation fees

Whatever you may need support with, they will either be able to help or point you in the direction of someone who can. Find out more: www.nottingham.ac.uk/studentservices

** Providing you submit your returners’ application in line with the requirements of the accommodation providers.
Getting involved in your Students’ Union

As soon as you start at The University of Nottingham, you are automatically enrolled as a member of our Students’ Union, which is considered to be one of the best in the country. There are hundreds of activities that you could be part of, providing you with the perfect opportunity to take up a new hobby or pursue existing interests. Choose from over 200 student-run societies, covering all interests and abilities, as well as local and national volunteering projects, to which you can commit as much or as little time as you wish.

Our Students’ Union is home to a number of award-winning student-run media groups, which give you the chance to gain practical work experience both behind the scenes or centre stage as a presenter, actor or journalist. The Nottingham New Theatre, Impact magazine, Nottingham Student Television (NSTV) and University Radio Nottingham (URN) have all been recognised as the best in their field, winning a clutch of awards for outstanding achievements.

However you decide to become involved in the Union, you can be sure you will make new friends and learn new skills, all while having a lot of fun! Find out more: www.su.nottingham.ac.uk

Sports

We offer sport at all levels and an excellent all-inclusive student membership offer, so whether you enjoy sport as a hobby or are an elite athlete we will have just what you need. We have over 70 sports clubs, which means we have the 2nd highest number of sports clubs of any UK university. If you’re not interested in joining a team but want to stay fit, we have sports centres on all of our main UK campuses. Find out more: www.nottingham.ac.uk/sport

Exploring your new city

With Nottingham city centre just a 10-minute bus ride away from University Park Campus, our students are always close to the action. Buses run through campus regularly and many run late-night services too, which is handy if you’re a night owl.

For music lovers, you can take your pick from the world-famous Rock City, Capital FM Arena or one of the smaller gig venues for a more intimate live show. Nottingham is rich in performance venues, with comedy clubs and theatres catering for lovers of drama, musicals, ballet and panto. We are very proud of our sporting heritage, and with football clubs Nottingham Forest and Notts County in the city, as well as Trent Bridge cricket ground and the National Ice Centre on your doorstep, you might just become a sports fan if you’re not one already.

History and culture can be found in all corners of the city, with Nottingham Castle, Nottingham Contemporary arts centre, the Galleries of Justice Museum, Nottingham Lakeside Arts (the University’s public arts centre located on our University Park Campus), art house cinemas and three of the world’s oldest pubs all providing points of interest. If you enjoy shopping, Nottingham is perfect for you; independent boutiques and vintage shops in the bohemian area of Hockley mix with high street names in our large shopping centres to make Nottingham a veritable shopping haven.

Find out more: www.nottingham.ac.uk/nottinghamlife

Download our city guide: www.nottingham.ac.uk/go/cityguidedownloads
Applying for a place

We are looking for students who have the ability and motivation to benefit from our courses, and who will make a valued contribution to the school and the University. Candidates for full-time admission are considered on the basis of their Universities and Colleges Admissions Service (UCAS) form. For more information on how to make your application stand out, have a look at our online prospectus: www.nottingham.ac.uk/ugstudy/applying

Application process
All applications for an undergraduate place to study at The University of Nottingham (including applications by overseas students) must be made through UCAS. Applications should be made online at www.ucas.com. Candidates will be notified of decisions through UCAS Track at track.ucas.com

Your personal statement
This is the section of your UCAS form that tells us the most about you, and you should make the best use of it. Be as specific and detailed as you can – we would like to see that you are a student who can work hard, be self-motivating and make the best possible use of the opportunities this course might have to offer you.

Required subjects
Most applicants will have studied three or more A levels and will be expected to achieve a minimum of grade A in A level mathematics. Our offers are generally based on grades achieved in three A levels, and all subjects are accepted with a small number of exceptions which currently include general studies, critical thinking and citizenship studies.

We normally also ask for evidence of additional achievement in mathematics, such as grade A* in mathematics, grade A in AS or A level further mathematics or grade 2/merit in STEP/AEA.

For our joint honours courses, it is not always necessary to have studied the non-mathematics component at A level. Other qualifications (International Baccalaureate, BTEC and others) are considered on an individual basis, with offers equivalent in standard to the A level package.

We do not require you to have studied further mathematics and we recognise that some schools and colleges offer limited support for this subject. While the extra mathematical experience gained by taking further mathematics at A level or AS level may be helpful to you in your first year, you should not be disadvantaged in subsequent years of study if you have not taken these.

Alternative qualifications
In this brochure you will find our A level entry requirements but we accept a much broader range of qualifications. These include:

- Access to HE Diploma
- Advanced Diploma
- BTEC HND/HNC
- BTEC Extended Diploma
- Cambridge Pre-U
- International Baccalaureate
- Irish Leaving Certificate
- Scottish Advanced Highers
- Welsh Baccalaureate Advanced Diploma

The list is not exhaustive; we will consider applicants with other qualifications on an individual basis. The entry requirements for alternative qualifications can be quite specific; for example you may need to take certain modules and achieve a specified grade in those modules. Please contact us to discuss the transferability of your qualification.

For tips and advice at every step of your application journey, visit our undergraduate applicants’ area: www.nottingham.ac.uk/ugapplicants

STEP/Advanced Extension Award
We recognise that many schools cannot provide the support required for students to take the STEP or Advanced Extension Award in mathematics. Therefore we do not require this qualification, although when offered we may accept it as evidence of further achievement in mathematics.

Flexible admissions policy
In recognition of our applicants’ varied experience and educational pathways, we employ a flexible admissions policy. If we judge that your situation has adversely affected your achievement, then we will consider this when assessing your academic potential. If you wish to mention information about your experiences in your personal statement, then you should ask the teacher or tutor writing your reference to confirm what you have written. We may ask for further evidence and may consider a range of factors. For more information, please see www.nottingham.ac.uk/admissionspolicies

Mature applicants
We encourage applications from mature students (who are normally all those aged 21 or over when the course begins) and you should apply in the normal way through UCAS. While we accept a range of qualifications, you should check our specific requirements on UCAS course entry profiles. If in doubt, please contact the admissions tutor, who will be happy to answer any specific queries you have about applying as a mature student. Please email your questions to matureadm@nottingham.ac.uk.

For more information about being a mature student, please see www.nottingham.ac.uk/mature

International applicants
We welcome applications from international students and have students from many parts of the world studying with us at undergraduate and postgraduate level. All international candidates for undergraduate courses should apply through UCAS. The University’s International Office offers guidance and advice on matters such as visa and immigration regulations, working and living in the UK, entry requirements and preparing for coming to Nottingham – and arranges a Welcome Programme for new international students each September. If you would like to visit the University and are unable to attend an open day, the International Office will be happy to arrange an individual visit for you. For further information please visit www.nottingham.ac.uk/studywithus/international-applicants

English language requirements
IELTS 6.5 (no less than 6.0 in any element). For more information and a list of the alternative English language requirements we accept, please see www.nottingham.ac.uk/go/alternativerquirements

Preparing to study in English – academic English preparation and support
The University of Nottingham Centre for English Language Education (CELE) offers high-quality academic English and study skills (presessional) programmes to prepare you to study your degree in English. Our programmes are designed to give international students excellent preparation for their academic studies and are taught by experienced, professional tutors.

CELE provides a range of programmes throughout the year, including five-week subject-specific courses (in some subjects) and a four-week course in September for students with unconditional offers, which focuses on academic study skills. You can continue to benefit from academic English support with free classes and one-to-one advice throughout your study (insessional programmes). For more information about CELE, please visit www.nottingham.ac.uk/cele

Deferred entry
Applicants who wish to defer their entry by a year will not be at a disadvantage. Please tell us something about your plans for your gap year in your UCAS personal statement.

Equal opportunities policy
The University aims to create the conditions whereby students and staff are treated solely on the basis of their merits, abilities and potential, regardless of gender, race, colour, nationality, ethnic or national origin, age, socio-economic background, disability, religious or political beliefs, trade union membership, family circumstances, sexual orientation or other irrelevant distinction.
Frequently asked questions

How much are the fees?
Like many universities in England, Nottingham charges full-time UK and EU students an annual tuition fee of £9,000. However, you will not have to pay your fees while studying – the government will lend eligible students the money, which you will start to pay back once you have left university and are earning at least £21,000. For more information, please see www.nottingham.ac.uk/fees

Fees for students from outside the EU vary from subject to subject. For more information, please see the ‘New international students’ section on www.nottingham.ac.uk/fees

What bursaries are available?
Although bursary figures for 2016/17 are yet to be finalised, the University will continue to offer a generous package of bursary support to students from lower income households. These are in addition to any support you may receive from the government. For more information please see www.nottingham.ac.uk/financialsupport or take a look at the funding tab on the relevant course entry in our online prospectus: www.nottingham.ac.uk/ugstudy

If you are an international applicant (outside of the EU), please see the ‘New international students’ section on www.nottingham.ac.uk/fees

Each year the school offers scholarships to a number of our best international applicants. The details vary from year to year, but are typically worth £2,000 for single honours and financial mathematics students in each year of study, subject to academic performance. Joint honours students are awarded a scholarship of £1,000. To find out more, please contact us or visit the school’s website: www.nottingham.ac.uk/mathematics/feesfunding

What support do you offer for students with a disability or dyslexia?
The School of Mathematical Sciences, like the University, is committed to promoting access for students who have a disability, dyslexia or a long-term medical condition. Services provided by the University aim to enable students to fulfil the inherent requirements of the course as independently as possible. The University’s Disability Statement, which lists services, facilities and opportunities available throughout the University can be viewed at www.nottingham.ac.uk/disability

What support is available for students with children?
There are a range of services provided to support students with children, including a University day nursery, a playscheme and playcentre day care. There is also a scheme to help students fund childcare. For more information, see www.nottingham.ac.uk/child-care

Visit our website for more frequently asked questions: www.nottingham.ac.uk/faqs

There are plenty of study spaces across campus with computer access.
Visiting and contacting us

Open days
If you’re considering applying to The University of Nottingham we recommend that you try to attend one of the University-wide open days, which are held in June and September each year and attract around 30,000 visitors. Find out more: www.nottingham.ac.uk/opendays

Mini open days
Mini open days are much smaller than the main open days but offer the same opportunities to attend various talks and tours as well as speak to current students and academics. Find out more www.nottingham.ac.uk/miniopendays or call +44 (0)115 951 5559.

Virtual open day
If you can’t attend one of our open days in person, or would like to explore our campuses before visiting, take a look at our virtual open day: www.nottingham.ac.uk/virtualnottingham

UCAS visit days
All candidates who receive an offer are invited to a UCAS visit day, which is an opportunity for you to see the school and the University for yourself. You will hear about the school and its courses from members of academic staff and they will answer any questions you might have. You will also be given a short tour of the campus by current students.

Other visits
If you wish to make an informal visit to the University prior to applying here, you are welcome to do so, but you should contact us in advance if you wish to visit the school or speak to an admissions tutor and we will do our best to oblige.

Contact us
Admissions Team
School of Mathematical Sciences
The University of Nottingham
University Park
Nottingham
NG7 2RD

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t: +44 (0)115 951 3651
f: +44 (0)115 951 4951

e: maths-ug-admissions@nottingham.ac.uk
w: www.nottingham.ac.uk/mathematics

For international student enquiries, please contact:
The International Office
t: +44 (0)115 951 5247
f: +44 (0)115 951 5155
e: international-office@nottingham.ac.uk
w: www.nottingham.ac.uk/international

You can also connect with fellow applicants and current students on our applicants’ Facebook and Twitter pages:

STUDY WHAT YOU LOVE
#STUDYWHATYOULOVE

Science and Engineering

Your passion can be your success. Study what you love.
The world needs scientists and engineers. But not just any scientists or engineers. It needs people who will transform their love of the subject into life-changing inventions and discoveries. If you have the enthusiasm, we have the lecturers to fire it.

Find out more: www.nottingham.ac.uk/studywhatyoulove

This publication is available in alternative formats:
t: +44 (0)115 951 5559

The University of Nottingham has made every effort to ensure that the information in this brochure was accurate when published. Please note, however, that the nature of the content means that it is subject to change from time to time, and you should therefore consider the information to be guiding rather than definitive. You should check the University’s website for any updates before you decide to accept a place on a course.

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