Undergraduate Courses in Mathematics
Welcome to the Department of Mathematics

We are an enthusiastic department offering high quality courses based around the teaching of mathematics and its applications, the development of employability skills mathematics graduates need for successful and fulfilling careers.

We are a leading research department, which helps us continually develop and innovate our curriculum. The cutting edge research we do into areas such as mathematical modelling and computing, financial mathematics and data mining, statistics and actuarial science, mathematical biology, algebra, geometry, and topology, feeds directly into our teaching, so you can be assured that you’ll be taught by staff at the forefront of current mathematics research. We provide a friendly and supportive environment in which to study and pride ourselves on placing great emphasis on student support, helping every student to fulfil his or her potential. We aim to produce highly trained graduates with employer focused skills.

Choosing your degree is one of the most important decisions you will make in your life. We hope this brochure will provide you with all the information you need to consider studying Mathematics at the University of Leicester. Included are details of the courses we offer, our teaching methods, student support system and some of the career opportunities open to our graduates.

We look forward to welcoming you at the department at an open day or as a student.

Ruslan Daviddchak
Head of Department
We offer a range of mathematics degrees tailored to suit students with different interests, career aspirations and academic backgrounds. We endeavour to ensure our graduates leave with the knowledge and skills to be successful in the diverse employment market available for mathematicians. Many of the employability skills obtained throughout your course enable graduates to enter both mathematical and non-mathematical employment.

Our straight Mathematics degree are offered as BSc or MMath routes of study, whilst other degrees can be studied with a year out in industry or abroad. There is flexibility in all our degrees to suit everyone.

Courses codes

<table>
<thead>
<tr>
<th>Course Name</th>
<th>UCAS Code</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc Mathematics</td>
<td>G100</td>
<td>3 years</td>
</tr>
<tr>
<td>BSc Mathematics (Europe)</td>
<td>G101</td>
<td>4 years</td>
</tr>
<tr>
<td>BA Mathematics</td>
<td>G102</td>
<td>3 years</td>
</tr>
<tr>
<td>BSc Mathematics (USA)</td>
<td>G103</td>
<td>3 years</td>
</tr>
<tr>
<td>MMath Mathematics</td>
<td>G105</td>
<td>4 years</td>
</tr>
<tr>
<td>MMath Mathematics (USA)</td>
<td>G107</td>
<td>4 years</td>
</tr>
<tr>
<td>BSc Mathematics and Actuarial Science</td>
<td>GN1H</td>
<td>3 years</td>
</tr>
</tbody>
</table>

AAB is the usual offer for all courses with A-level grade A in Mathematics required for all programmes (other equivalent qualifications can be accepted).

Our degree programmes

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Why choose to study at Leicester

Internationally recognised teaching and research:
You will be taught by research active staff at the cutting edge of their fields. Members of staff are involved in variety of areas, from detecting water on moons of Saturn, to determining the long range patterns found in aperiodic tilings. Research is being undertaken in the area of mathematical risk theory and finance as part of the Institute of Finance, as well as modelling of biological systems to understand disease patterns. These diverse and interesting areas of mathematics feeds directly into our teaching, making you will benefit from developments in mathematics as they occur and stimulates an exciting learning environment.

Excellent Support:
We provide small group teaching which leads to excellent staff-student relationships and allowing us to provide strong levels of support to you. The department house system enables greater student support both from staff and your peer group.

Flexible learning methods:
Our modern teaching methods mean you will learn topics using a variety of methods, making use of modern technology and electronic resources. Equally assessment methods will be diverse and aimed at enhancing your overall employability skills.

Breadth of Knowledge:
Our degrees are constructed to reflect the central role contemporary mathematics plays in society; ranging from the most pure science to the most applied uses in industry and banking.

Specialist options:
Our wide range of specialist modules enabling you to specialise according to your interests and your skills develop.

Professionalism:
Some of our modules offer exemptions from the Faculty and Institute of Actuaries, giving you a head start on their professional examinations towards becoming an actuary.

Real Work Experience:
All our degrees give you the option of spending a year in a sponsoring company or organisation. This will give you first-hand experience of working in a mathematics related career, develop your workplace skills and allow you to network with people in industry.

The course has definitely met my expectations and it has opened many other perspectives and opportunities I never would have thought of before.

Dmitrij, BSc Mathematics Graduate
BA/BSc Mathematics
• Our BA and BSc courses provide a solid foundation in contemporary mathematics and its applications.
• You'll have the opportunity to follow a general curriculum or specialise in areas of interest such as pure mathematics, applied mathematics or statistics.

MMath Mathematics
• After studying the first two years of the BSc Mathematics course, the third and fourth year of the MMath takes you to a deeper level of mathematical understanding.
• The third and fourth years will allow you to study a wide range of modules, including some only available for MMath students.

Key course features
• An extended project module is undertaken individually supervised by a member of staff and tailored to your interests.
• You'll gain in-depth knowledge and research skills appropriate for postgraduate research study.

BSc Mathematics and Actuarial Science
• This course offers you the chance to develop your mathematical ability, whilst focused on financial and actuarial applications.
• The course promotes the development of a wider range of skills – maximizing your employability potential.
• During your third year you will undertake a significant individual project applying mathematics to the solution of real problems from the actuarial world.
• Students who perform particularly well in the course modules could be awarded exemptions from some or all of the Institute of Actuaries Core Technical 1-8 Exams.

BSc Major in Mathematics
• This Major is the route to choose if you are fascinated by the beauty of mathematics and want a thorough understanding of all aspects of maths and its applications in our modern world. This degree will equip you with a solid foundation in contemporary mathematics and its applications. Depending on your particular interests, you will be given the opportunity to follow the general curriculum or to specialise in concrete areas of pure maths, applied maths, numerical simulation, or data analysis.

Professional accreditation
Successful completion of certain modules, with an appropriately high pass level, will provide you with exemption from the professional examinations of the Institute of Actuaries.

Full course information can be found at: https://le.ac.uk/courses/major-in-mathematics-bsc

You will cover key mathematical skills that are essential for working in the financial sector.
Subject streams

Your first year falls into three streams of study. Two of these streams form the common core mathematical content across all of our degrees. The third stream offers you several options: you can choose to study more mathematics—covering topics such as Mathematics and Society, Plane Geometry, Mathematics for Business, Elements of Number Theory; or you can choose to study a different subject altogether. This provides you with the opportunity to learn a little about topics such as economics, astronomy, modern languages and so on.

Application of Maths Stream
A continuation of the maths you may have studied up to now and an opportunity to fill in on topics you may not have covered. You study multivariable calculus, differential equations, dynamics and probability, Marketing Design and Operations.

Fundamental Maths Stream
This will be a completely new stream of mathematical ideas that seeks to understand the basic language of mathematics and its need for precision. You will study the fundamental concepts and ideas from algebra and calculus. These ideas are then also used to study essential questions about the nature of numbers and geometry.

Supplementary Stream
Here you study either more mathematics modules, optional topics in other subjects, or you spend the time on your chosen subject for a joint degree.

Course modules

Each degree course consists of core and optional modules throughout the three or four years. The core modules cover the fundamental topics required from a mathematics degree. The optional modules offered are specific to the course and provide specialist knowledge in that area.

As your degree progresses many more subjects are introduced through core and optional modules. The curriculum is designed to give you ‘pick and mix’ routes of study as you progress. These routes will lead from the fundamental mathematics of your first year to the complex mathematics relevant to the solution of problems by the end of the degree.

Topics covered in the degree courses include the mathematics behind the prediction of complex physical processes like the weather or biological systems, the mathematics of drawing accurate maps of the world, and the deep understanding of numbers that allows you to tell whether a given equation can be solved or not.

Other streams of modules give you opportunities to understand the history of mathematics or hone your skills at presenting your ideas and communicating your thoughts—skills vital to almost every profession.

YEAR ONE MODULES

First Year core modules
- Linear Algebra; Probability;
- Calculus & Analysis; Introductory Statistics;
- Macro & Micro Economics (Actuarial course only);

Examples of optional modules
- Mathematics and Society; Mathematics for Business;
- Plane Geometry; Elements of Number Theory.

YEAR TWO MODULES

Second Year core modules
- Further Calculus & Analysis; Differential Equations;
- Linear Algebra; Algebra; Introduction to Computing;

Examples of optional modules
- Business Applications in Mathematics;
- Applied Econometrics; Linear Statistical Models;
- Elements of Topology; Investigations in Mathematics.

Second Year core modules: Mathematics with Actuarial Science
- Cash Flow Analysis and Interest; Principles of Financial Modelling;
- Mortality Modelling; Introduction to Computing;
- Applied Statistics; Finance and Finance Reporting;
- Linear Statistical Models; Applied Econometrics.
Your learning experience

Teaching methods
All of our courses are modular and the academic year is divided into two semesters with assessment at the end of each semester. This allows for regular feedback on your progress and ensures you regularly discuss this with your tutor. Each module uses a variety of methods for learning, including:

- **Lectures:** All courses contain a number of lectures and they form a major source of information for each module. They are delivered in a variety of styles by enthusiastic staff.
- **Web-Based learning:** All of our modules are linked to Blackboard – a virtual learning environment that gives you access to lecture notes, additional learning units, self-tests and supplementary interactive information to support your learning of the module.
- **Feedback Sessions:** These are small group meetings when you will get to solve mathematical problems and discuss the material introduced in lectures.
- **Surgeries:** Drop-in session where you can talk over specific areas of your work and obtain guidance on solving particular mathematical problems.
- **Peer support:** More experienced students share their experience with you, developing study skills and helping you develop more effective solution strategies.
- **Problem solving classes:** These focus on working through a series of mathematical problems you have previously worked through, they enable you to check your learning and reflect on particular examples with the aid of an experienced mathematician.
- **Workshops:** Working in small groups you explore new mathematical problems and develop your ideas in a more project-based learning style. Undergraduates enjoy this element of team work and help develop transferable skills valued by employers such as communication, teamwork and problem solving.

A typical week
A typical week for a first or second year student might consist of 9-12 hours of lectures, 3-5 hours of small group working and 2-4 hours of problem classes or computer classes. In later years classes may become smaller or fewer as you start to specialise in particular areas of interest and undertake project work. In addition you are expected to spend the remainder of the working week on private study; this is time spent on problem solving, additional reading and preparing for tutorials.

Assessment styles
Assessment varies across modules and can include:

- **Examinations:** Usually taken at the end of the semester in which the module is taught.
- **Coursework:** This could be continuous, or at the end of a module and is assessed in a variety of ways.
- **Class tests:** Some modules set regular class tests which could be written tests, group presentations or computer based tests providing instant feedback.
- **Research projects:** These are assessed in a variety of ways including, oral examination, electronic presentations, written report and originality.
A year abroad or in industry

Year abroad

On the BSc Mathematics and MMath Mathematics courses you have the option of spending a year at an overseas university, either in Europe or the USA. These degrees are no different from the standard degrees on which they are based – however they offer you the opportunity to live and work abroad and appreciate a different mode of study and research.

If you take the USA degree you can spend your second year at one of our partner institutions where you will take an approved selection of their courses. Availability of places at these universities alters each year, recently students have studied at:

- University of Miami
- California State University
- Kent State University (Ohio)
- State University of New York (Buffalo)

In a Europe degree you spend an additional year between your second and third years at one of our partner institutions in:

- France
- Germany
- Italy
- Holland

Appropriate language tuition is provided in your first and second years to help you prepare. You will return to Leicester to complete the final year of the degree as your fourth year of study.

Staff will help you get ready for your year abroad and the department has a dedicated study abroad tutor who can advise you and will keep in touch remotely whilst you are overseas.

Year in industry

Alternatively all our degree programmes offer the option of spending a year in a sponsoring company, industry or organisation. These are sandwich courses where you are placed with a sponsoring company for one year between the end of the second year and the start of the third year of academic study.

During the placement year you undertake a programme of training and practical experience which is agreed between the sponsoring company and the University. A member of staff is assigned to each placement student as their industrial tutor, whereby the student and tutor maintain regular contact during the year of the placement.

In an ever competitive marketplace you will have first-hand experience of working in a mathematics related career, develop your workplace skills and allow you to network with people in industry.

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International foundation year

The foundation year offers preparation for degrees in our department for international students who do not meet the direct entry requirements. The foundation year is based in the International Study Centre on campus and will prepare you for the transition to University. It offers:

- Specialist preparation for your degree
- Flexible entry dates
- Assured progression to your chosen degree provided you meet the specified requirements
- Full access to University facilities
- Personal academic monitoring and support
- University style teaching
- Progression to our degrees

Entry qualifications

A wide range of international qualifications are accepted from students who should ideally have completed twelve years of formal education. A full list of accepted qualifications can be found on their website.

How to apply

For further information please contact the enrolment advisors for help and advice:

t: +44 (0) 1273 339333
f: +44 (0) 1273 339398

You can apply directly by contacting a student enrolment advisor through the website: www.le.ac.uk/isc

To progress onto our BSc degree courses you will need to attain 60% overall and 70% in Pure Mathematics 1 and 2.

To progress onto our MMath degree you will need to attain 70% overall and 75% in Pure Mathematics 1 and 2.

Student support

The Department has an excellent track record of student support and feedback

You will be assigned a personal tutor who will be available to help and guide you throughout your studies. You will be encouraged to meet with them following examinations to obtain your results and they will be able to help you guide you on personal or academic matters. We have a friendly approach to student support and if your personal tutor is not free other academic and administrative staff are always available to help.

The Department runs a successful house system, with all students being assigned to a house upon registration. Houses offer social and academic support to students and provide you with more direct contact with your peers and academic tutors. Each house has an academic house tutor with student elected positions such as house president, treasurer, and social secretary. This is great way to get to know your fellow students and participate in year round social, academic and career activities.

Surgeries and peer support drop in sessions allow you time to talk through mathematical problems with other students who have already studied the modules, plus you might be interested in becoming a student mentor in your later years of study. This system ensures that the department enhances it student experience and facilitates better student collaboration, this way students never feel alone.

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Employability skills are embedded into our teaching throughout your studies so you will be developing the skills employers are looking for right from the start of your course. This is pulled together in your final year through a series of optional project modules. As part of some projects and other modules you will have the opportunity to develop your business skills through a series of employer led workshops, networking events, business games and you can work with employers to solve real industry problems.

For example, the Business Applications of Mathematics module gives you the opportunity experience the application of mathematical theory and mathematical modelling in a business context, where problems are not clearly defined and do not fall into obvious categories. You reflect on the transferable skills you are developing whilst working through the case studies and are encouraged to consider how you can evidence these in the recruitment and selection process for graduate employment, giving you a competitive edge when entering the graduate careers market.

The final year of our degree programmes offer a range of options in mathematics, finance and management as well as project modules aimed at increasing employability and interacting with the business community as well as traditional research skills. These modules help give our graduates a competitive edge when entering the graduate careers market.

Examples of jobs for students entering their first employment
- Accountant
- Audit Trainee
- Pension Administrator
- Teacher
- Tax Associate

A large proportion of our students continue to further studies and the department offers a variety of postgraduate study programmes which many of our students choose to continue with. We offer postgraduate courses in MSc Financial Mathematics and Computation; MSc Actuarial Science (both on campus and via distance learning); MSc Mathematical Modelling in Biology and an MRes in Pure Mathematics. We also offer MPhil and PhD research degrees across pure and applied mathematics. These degrees offer graduates the opportunity to pursue further and more specialist studies before embarking on a career.

University Career Development Service

The Career Development Service can help you gain the extra dimension you need to stand out – real-world skills and qualities that will not only enhance your early career prospects, but will stay with you for life. The way to make the most of you is to work with them the moment you arrive at Leicester.

The Career Development Service looks at the bigger picture and encourages you to be reflective and think about what you want out of a career. You can then explore your options and begin looking at what you need to do to fulfil those big ambitions.

For more details visit www.le.ac.uk/careers

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Careers

Our graduates are equipped for a wide range of careers and have gone into the financial sector, including accountancy and actuarial work; management; the Civil Service; industry and teaching (both primary and secondary education). All our degrees, but particularly the MMath degrees, provide a suitable preparation for postgraduate study in mathematics; computer science and related areas.

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Entry requirements and how to apply

How to apply
Applications should be made through UCAS.
www.ucas.com

Entry requirements
A/AS Levels: Typical offers to study our degrees are AAB for the 3-year BSc courses and the 4-year MMath courses. Grade A Mathematics is required at A-level for all our degrees. Two AS levels can be considered in place of one A-level excluding Mathematics. A level Languages and General Studies accepted.

- GCSE: French, German or Italian at C or above (or equivalent) for Mathematics/Europe students.
- Access to HE courses: Pass with at least 45 credits at level 3 of which 30 credits at distinction including 15 credits at distinction in Mathematics.
- International Baccalaureate: Pass Diploma with 32 points with 6 in Higher level Mathematics.
- European Baccalaureate: Pass with 80% overall including 8 in Mathematics.
- BTEC Nationals: Pass Diploma with DDM with Distinction in Mathematics OR grade A in Mathematics at A level
- Other Qualifications: Other national and international qualifications welcomed.

- Mature students welcomed: Alternative qualifications considered.
- Second Year Entry: Possible for those with advanced qualifications compatible with our degree structure (except for USA degrees and joint programmes).

Applicants are not normally interviewed, but all those receiving an offer will be invited to visit the Department on one of our visit days. For those applicants overseas who are unable to attend you may request a telephone or video call with the Admissions Tutor to ask any questions.

International and European applicants will require an English Language qualification of 6.0 in IELTS or equivalent. For a full list of accepted English language qualifications visit our website www.le.ac.uk/englishskills

Unfortunately our Mathematics degrees are not available on a part-time basis.

Financing your studies
The University has numerous scholarship packages available to students to help cover the costs of tuition fees or living costs. For full information about funding your studies and scholarship packages visit our website www.le.ac.uk/fees

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Campus
On our bustling compact campus it’s impossible to walk from one end to the other without bumping into someone you know along the way. The campus is a vibrant community, with all manner of places to meet, eat and drink, as well as study. We’re committed to providing you with high quality facilities and our £1bn campus development plan ensures all our resources meet the needs of modern and ambitious students.

Students’ Union
The Students’ Union is brimming with opportunities that will make your time at Leicester unforgettable. The spectacular Percy Gee building boasts superb facilities, from bookshops to bars and the fantastic live music venue, O Academy Leicester. You are encouraged to get involved with the SU – there are over 200 student societies covering a huge range – sport, politics, media, performing arts and much, much more. It’s a great way of meeting new people, gaining skills or trying something completely different!

Accommodation
Our accommodation offers you a wide variety of choice. Whether you fancy self-catered or catered, en-suite or standard, there will be a package to suit you.

Library
The award-winning David Wilson Library is a light, airy, five-storey building providing state-of-the-art facilities for all our students. We invest over £6 million per year in the Library. Self-service loan and return, group study rooms, hundreds of PCs, netbook loans, wireless access throughout, a staffed Help Zone in the Library and online, 24/7 opening during term time, plus a bookshop and café create a first-class study environment.

Sports Facilities
You can enjoy a work out, take a swim or build up a sweat in a fitness class at our modern sports centres on campus or at Manor Road (next to our accommodation). You can also get involved with our sports clubs, which welcome members of all abilities. Keen competitors can also represent the University through Team Leicester, the hotly-contested Varsity matches and our thriving intramural events.

Attenborough Arts Centre
The Attenborough Arts Centre is the University’s own arts centre, offering a vibrant programme of events, music, spoken word, and exhibitions in its new gallery and performance spaces. Attenborough Arts offers you the chance to try something new, from a variety of arts courses to hula hoop dancing or creative writing. There are special discounts for students. Or if you just want a break from your studies you can enjoy free lunchtime music performances or have a drink at the café.

www.le.ac.uk/accommodation
www.sulets.com
www.le.ac.uk/sports
www.le.ac.uk/library
www.attenborougharts.com
The City of Leicester

Leicester is a lively and diverse city and the tenth largest in Britain. It has all the activities and facilities you would expect, with a friendly and safe atmosphere. The city centre is just a short walk from campus so you’ll never be far from the action.

Leicester’s diverse heritage is reflected in a dazzling array of festivals and cultural experiences including one of the largest Diwali celebrations outside India, the UK’s longest running Comedy Festival and the University’s hugely successful book festival – Literary Leicester.

Leicester is home to several cinemas, theatres, museums and galleries, including the world-class Curve Theatre and independent Phoenix Square.

A city of sporting excellence, sports fans will need no introduction to the remarkable Leicester City and their phenomenal Premier League title victory. The 2016/17 season promises more excitement as they compete in the UEFA Champions League for the first time. You can also watch top-class English and European rugby at Welford Road, home of the mighty Leicester Tigers. The Leicester Riders are a formidable presence in the British Basketball League (BBL), and during the summer months, Leicestershire County Cricket Club competes in the county championship and T20 Blast competition.

For shoppers, Highcross features 110,000 square metres of retail therapy, café bars and restaurants. Those with independent tastes should explore Leicester Lanes with its variety of boutiques and specialist shops.

As you would expect from a true student city, there is a huge choice of bars, clubs and live music venues that cater for all preferences. Food lovers are treated to a fantastic selection of restaurants, with specialties available from every corner of the world.

In the lanes you’ve got all these little old boutiques that sell vintage clothes and things you wouldn’t expect to find in your general high street stores.

“The city is big enough that it will take you three years to discover everything about it, but it’s small enough so you won’t be completely lost the entire time you are here.”
For more information

The Admissions Team
Department of Mathematics
University of Leicester
Leicester, LE1 7RH, UK

t: +44 (0) 116 252 5281
e: seadmissions@le.ac.uk
w: www.le.ac.uk/maths-ug

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However, in exceptional circumstances it may be necessary for the University to cancel or change a programme or part of the specification more substantially. For example, due to the unavailability of key teaching staff, changes or developments in knowledge or teaching methods, the way in which assessment is carried out, or where a course or part of it is over-subscribed to the extent that the quality of teaching would be affected to the detriment of students. In these circumstances, we will contact you as soon as possible and in any event will give you [30 days] written notice before the relevant change is due to take place. Where this occurs, we will also and in consultation with you, offer you an alternative course or programme (as appropriate) or the opportunity to cancel your contract with the University and obtain a refund of any advance payments that you have made.