

School of Mathematics

FACULTY OF MATHEMATICS AND PHYSICAL SCIENCES



UNIVERSITY OF LEEDS

Mathematics

Undergraduate Programmes 2012



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Mathematics

Undergraduate Programmes 2012

For current information please visit our website at www.maths.leeds.ac.uk

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Welcome

The School of Mathematics, at the University of Leeds, offers you high quality degree programmes with lots of personal support in a friendly environment.

This brochure gives you an insight into studying mathematics at Leeds. Within it you'll find lots of useful information on our degree programmes. We offer a wide range of modules allowing you to follow the subjects that interest you most. We give you the chance to shape your degree with your career aspirations in mind and this makes our graduates some of the most sought after by key employers.

The School has long been a world-leader in research and continues to deliver research excellence. We work to apply our research success into innovative teaching and offer education of the highest quality to help you get the most out of your time at university.

You'll find the School has a friendly atmosphere, helping you get the most from your university experience. There are many areas in the School to work and discuss ideas with your fellow students and members of staff.

Many of our graduates are now in highly successful careers in business and the financial industry. Some have also gone on to set up their own companies with the help of the University's graduate start-up scheme.

Why not see for yourself what Leeds University has to offer by visiting us at one of our many open days.

Discover your future at a leading School of Mathematics.

We look forward to meeting you.

Professor Charles Taylor

Head of School



“ We know that after deciding what to study, your next big question is ‘Where to study?’ ”

Our School

Set within the heart of the University, the School of Mathematics has a reputation for a friendly and relaxed atmosphere, with exceptional support for students.

Our degree programmes are both comprehensive and flexible. This flexibility includes opportunities for you to:

- Spend a year studying in a foreign country
- Spend a year in industry
- Choose from three or four year programmes
- Study non-mathematical subjects alongside mathematics

Our academic staff have an extensive range of subject specialisms. This means we are able to provide you with a wide choice of course options and module topics. Our courses range from focussing almost exclusively on mathematics, through to Joint Honours programmes combining mathematics with other subjects. Whichever course you choose, we will help you graduate as a well-rounded mathematician and will give you the opportunity to specialise according to your interests and career plans.

School fact file

Academic staff: **76**

(Including **35** Professors)

Undergraduate students: **762**

Single Honours: **551** Joint Honours: **211**

Postgraduates: **101**

The School is located at the heart of the University campus, close to lecture theatres, catering and sports facilities. We are right next to the University's main science and technology library, where



you will find ample study space, as well as computer clusters housing over 230 PCs for individual use, plus dedicated rooms for student group work.

Although the School is large, there is a friendly and informal atmosphere which new visitors and students often comment on!

The School has many study areas – ranging from a relaxed seating area to a quiet reading room and computing facilities. These are situated in close proximity to staff offices, giving a real community feel.

Research excellence

Our School has an international reputation for world leading research and is in the top ten mathematics departments in the UK in terms of ‘research power’, a measure which combines both quality and volume of research. So, you can expect our staff to be both enthusiastic for, and knowledgeable in, their subject. Our research inspires our teaching.



Current areas of research in the School include:

- **Algebra, Geometry and Integrable Systems:** abstract mathematical objects and structures with deep connections to theoretical physics
- **Analysis:** the study of mathematical spaces, functions and limiting processes
- **Applied Nonlinear Dynamics:** pattern formation, chaos, instabilities and systems driven far from equilibrium
- **Astrophysical and Geophysical Fluids:** dynamics of fluids on planetary and cosmological scales
- **Mathematical Biology and Medicine:** with applications in immunology, bioinformatics and population dynamics
- **Mathematical Logic:** a deeper look at some of the underlying structures and assumptions of mathematics
- **Polymeric Fluids and Industrial Mathematics:** mathematics with industrial application – numerical modelling, inverse problems and the flow of gloopy molten plastics!
- **Probability, Stochastic Modelling and Financial Mathematics:** systems and processes involving uncertainty, from stock markets to molecular motion
- **Statistics:** making sense of noisy data, with applications including shape analysis, medical imaging and machine learning

Why Study Mathematics?

Studying mathematics is fun and interesting and there is real satisfaction gained from solving a challenging mathematical problem, or mastering deep mathematical theory.

There is enormous flexibility within a mathematics degree to specialise according to your interests. Or alternatively, do a bit of everything. You can study a range of topics such as mathematical logic, algebra and geometry, or applications to other areas, such as engineering, computing, physics or finance.

A mathematics degree will provide you with a range of transferable and specific skills to help you in your future career. Mathematics graduates are numerate, intellectually independent, able to think logically and laterally, can identify problems and come up with real solutions. Employers love these skills. Whatever you want to do when you graduate, promoting these skills to potential employers will aid you in your career aspirations.

Many mathematics graduates go on to careers in business and finance; indeed this is the main destination for our students. There is also a great need for mathematicians in areas of science and technology. Wherever you end up, the universal nature of mathematics means that the skills you develop on a mathematics degree will give you a unique approach to your chosen career.



Where Does it Lead?

Employers are crying out for numerate graduates, and a mathematics degree can be your passport to success.

From Accountant to Engineer; Meteorologist to Software Developer (and plenty more in between), the career possibilities of a mathematics graduate are endless. Here at the School of Mathematics, we give you the skills you will need when you enter the workplace.

“I teach Further Maths A-level so use my degree knowledge regularly, especially when students ask questions beyond the A-level syllabus. Teaching is a lot harder than I expected it to be, but it's really rewarding, especially when you see a student fall in love with the subject you feel so passionate about.”

Deborah Coates, BSc Mathematics, graduated 2002

“As an SEO (Search Engine Optimisation) Link Analyst I work to improve my client's web visibility. This involves building relationships in the relevant industry as well as keeping an eye on competitors. It's very different from all the usual finance and audit options. It's also a relatively new industry, so a lot of people don't know it exists.”

Emma Barnes, BSc Mathematics, graduated 2010

Working with employers

The School of Mathematics is currently working on an exciting project with graduate employers from a variety of sectors (including finance/professional services, government, engineering, teaching, IT, software designers) to further enhance the employability of our graduates. The employers are working with us on developing the curriculum, including new modules that give you experience of industrial and commercial problems. Working together, we can give you the best possible chance of securing that all important graduate job to kick-start a successful career.

Bright Sparks careers fair

Held within the School of Mathematics, the Bright Sparks careers fair is designed to introduce numerate graduates to key employers. It provides a great opportunity for you to meet different companies and find out what they are looking for in a graduate.

You will have the chance to speak to companies on a one-to-one basis and get help in writing your CV from our highly experienced careers advisors.

Further study

Masters degrees

After taking an undergraduate Bachelors degree, many students take a Masters degree to deepen their knowledge of mathematics or statistics or to learn about applications in another field, either as preparation for a career, or as preparation for PhD research. The School of Mathematics offers one year Masters degrees in Mathematics, Mathematics and Computer Science, Statistics, Statistics with Applications to Finance, and Atmosphere-Ocean Dynamics. www.maths.leeds.ac.uk/school/postgraduate

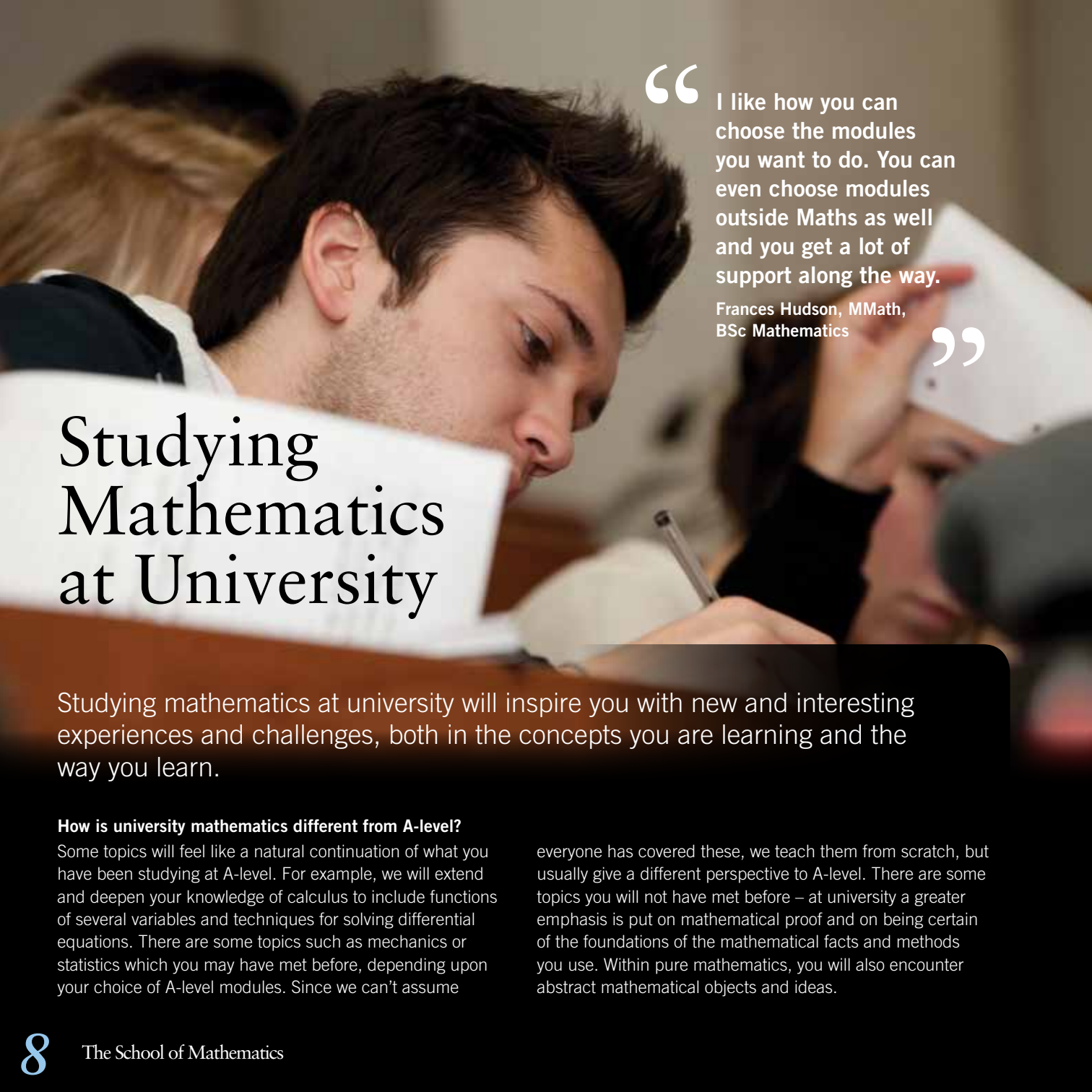
The School also offers (in conjunction with the Leeds University Business School) an MSc in Financial Mathematics. Find out more here www.leeds.ac.uk/lubs/msc-fm

PhD Research

The three-year PhD degree is a chance to undertake original research with the guidance of an academic supervisor. The degree can lead to further research work in industry, commerce, computing, or an academic post within a university. www.maths.leeds.ac.uk/school/postgraduate

Postgraduate Certificate of Education (PGCE)

Taking a one-year PGCE allows you to become a mathematics teacher (always in demand). The School of Education at Leeds is one of the best in the country, producing more mathematics and physics teachers than anywhere else. www.education.leeds.ac.uk



Studying Mathematics at University

“

I like how you can choose the modules you want to do. You can even choose modules outside Maths as well and you get a lot of support along the way.

Frances Hudson, MMath,
BSc Mathematics

”

Studying mathematics at university will inspire you with new and interesting experiences and challenges, both in the concepts you are learning and the way you learn.

How is university mathematics different from A-level?

Some topics will feel like a natural continuation of what you have been studying at A-level. For example, we will extend and deepen your knowledge of calculus to include functions of several variables and techniques for solving differential equations. There are some topics such as mechanics or statistics which you may have met before, depending upon your choice of A-level modules. Since we can't assume

everyone has covered these, we teach them from scratch, but usually give a different perspective to A-level. There are some topics you will not have met before – at university a greater emphasis is put on mathematical proof and on being certain of the foundations of the mathematical facts and methods you use. Within pure mathematics, you will also encounter abstract mathematical objects and ideas.

When you choose Leeds you will benefit from a wide range of teaching methods: lectures, tutorials, workshops and practical classes – making use, where appropriate, of extensive computing facilities. The combination of peer group and academic support means that there is plenty of opportunity to discuss questions arising from lectures and assignments. This means that you graduate with the correct mix of knowledge and transferable skills for a successful future career, whatever you choose to do.

Lectures

Lectures are a student's staple diet – the main source of information and knowledge, but probably quite different to anything you have encountered at school. There are a variety of teaching styles, but perhaps the most common and effective remains the traditional 'chalk and talk'. Here, the lecturer works through the mathematics on the board, explaining what they are doing, and why, as they go along. This gives you a real feeling for the mathematical process.

Coursework

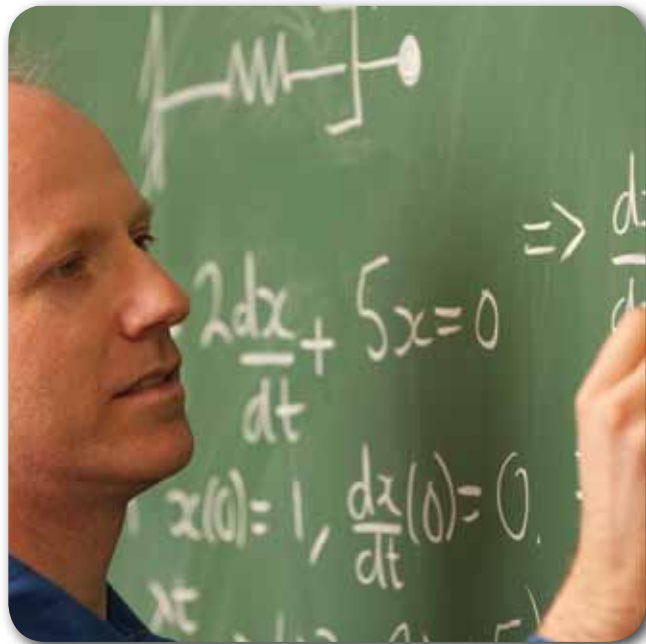
Lectures introduce you to a topic, but you are never really sure whether you have understood an area of mathematics until you have had chance to work it through for yourself. You will get regular problem sheets to solve; you can have a go at these on your own, or with friends, with help at tutorials. Naturally, we encourage students to talk through problems arising from coursework. Many queries can be resolved by a quick chat with a lecturer. Part of studying at university is that you will take increasing responsibility for your own learning.

Tutorials and workshops

You will get academic support for your modules through small group tutorials or workshops. Tutorials comprise discussions between small groups of students and a lecturer. A workshop takes place with a larger set of students in which you often work in small groups to practice problems associated with the course. Both give an excellent opportunity to ask questions and make sure that you understand the material that is given in lectures.

Personal Tutor

You will also be supported by your Personal Tutor – someone to whom you can turn to for advice on non-mathematical matters, should you need to.



Peer assisted learning (PAL)

In our popular 'PAL' sessions, second and third-year students assist first-years to obtain a deeper understanding of their studies. These sessions provide the first-years with the chance to see how their fellow students have learnt to approach problems. It is also a great experience for the students in higher years who find that explaining the theory aids them in further understanding the subject.

Other ways of learning

Not everything is lecture-led. For example, some modules may involve working in small groups on various problem solving tasks, or producing reports or presentations. In addition, many modules incorporate components to develop your communication and computing skills.

Assessment

Most modules are assessed by written examinations taken at the end of the semester in which the module has been taught, and most modules in the first two years also incorporate a small coursework component, typically 15% or 20%.

Single Honours Programmes

Our Single Honours programmes are:

- BSc/MMath, BSc Mathematics (G100/G101);
- BSc Mathematics with Finance (G1N3);
- BSc Actuarial Mathematics (NG31);
- BSc Mathematics and Statistics (GG13);
- BSc Mathematical Studies (G150).

In addition to these, there are a number of Joint Honours degrees involving mathematics. There are further details about these on pages 16 – 21 of this brochure.

Electives

Electives are optional modules that are available on some of our degrees. You can choose these from anywhere across the University of Leeds, according to your interests or future career plans.

Some of the most popular electives are in modern languages, management, music, philosophy and psychology. Taking an elective gives you an 'added' dimension and extra skills, something many employers appreciate.

Typical offers for

Single Honours Degrees
(G100, G101, G1N3, NG31, GG13, G150)

For applicants taking A-levels, our typical offer is AAB including A in Mathematics. If you are taking Further Mathematics at A-level or AS-level, we usually make an additional alternative offer of either AA in Mathematics and Further Mathematics A-levels, or AAA in Mathematics A-level, Further Mathematics AS-level, and one other A-level.

Please see page 27 for more information about entry requirements for our programmes.



BSc/MMath, BSc (Hons) Mathematics

- UCAS code: G100 (BSc) G101 (MMath, BSc)
- Duration: 3 years (BSc) or 4 years (MMath, BSc)
- Typical offer: see page 10
- 120 Credits per year all in Mathematics or use up to 20 Credits per year in electives outside Mathematics
- Available with Year in Industry (BSc only) and Year Abroad schemes

This is our most popular degree course. It gives you the strongest mathematical foundations, and the greatest flexibility to specialise within mathematics, according to your interests and aspirations.

MMath or BSc?

There are two degree options: the BSc, which is a three year course, and the MMath, a four year course. The MMath is an 'Integrated Masters' degree, which combines bachelors and masters level study. On successful completion you are awarded a single degree with the letters 'MMath, BSc'.

Many students choose to do the BSc degree, but if you are interested in learning more about mathematics, closer to the frontiers of research, or if you want to use mathematics at a higher level in your career, the MMath could be the right choice.

In most cases, it doesn't matter which you apply for: both have the same entry requirements and the first two years are identical. If you don't yet know which one you want to do, we suggest you apply for the MMath, as it will be straightforward to transfer to the BSc later if you wish.

Year 1

The first year of study contains an introduction to all the main areas of mathematics. This gives you the grounding for later modules, as well as the opportunity to discover where your interests lie. Some subjects follow on naturally from A-level (e.g. calculus). Others, such as statistics or mechanics, start from scratch to allow for the many different A-level syllabuses that our students will have followed. You will be introduced to many new and exciting topics.

Year 2

In the second year there are a number of core modules but you can also start to specialise according to what you have enjoyed most in year one, choosing topics such as:

- Pure Mathematics – for example, mathematical logic or geometry of curves and surfaces;
- Applied Mathematics – for example, special relativity or fluid dynamics;
- Statistics – for example, statistical modelling or environmental statistics.

Year 3 / 4

The third and fourth years are devoted to advanced modules chosen from pure mathematics, applied mathematics and statistics.

If you take the Integrated Masters programme, you also have the chance to study a range of specially devised masters level modules. There is also a project, worth at least a quarter of your final-year credit, in which you get to work one-to-one with a member of staff on a specialised area that interests you the most.

Mathematicians are in big demand; our Mathematics degree can help you find employment in many areas, including aircraft design, weather modelling, accountancy, computer programming and management positions, to mention just a few.



Leeds University Business School

BSc (Hons) Mathematics with Finance

- UCAS code: G1N3
- Duration: 3 years
- Typical offer: see page 10
- 120 Credits per year comprising: 80 Credits per year of Mathematics and 40 Credits per year of Business Finance and Economics
- Available with Year in Industry and Year Abroad schemes

The programme covers mathematics and business finance, developing a broad base of mathematical and financial skills. Two thirds of the time is spent on maths, including modules specialising in financial mathematics which cover mathematical modelling of financial and insurance markets. The remaining one third is spent studying business finance, accounting and economics. The course is run by the School of Mathematics and jointly taught by the School of Mathematics and Leeds University Business School.

Year 1

In the first year of the course you will study the main areas of mathematics and be introduced to the basics of economics, finance, and accounting. Modules include calculus and mathematical analysis, introduction to statistics, modelling with differential equations, introduction to probability, financial mathematics, economic theory and applications and introductory financial accounting.

Year 2

In the second year you will build on the knowledge acquired, studying specially chosen modules that will integrate aspects of mathematics and finance. Compulsory modules include financial mathematics, business finance, introduction to optimisation, introduction to Markov processes, and statistical methods. Optional modules cover a wide range of topics in mathematics, economics, accounting and statistics.

Year 3

In the final year, there is freedom of choice to pursue your interests through a wide range of modules devoted to mathematics, business finance, accounting, applied economics and economic theory.

Overall the course will provide you with an integrated programme of finance, economics and accounting combined with mathematics, specifically tailored to the financial services. You will be well prepared for a professional career in financial services – an international industry in which the UK enjoys a prominent role.

BSc (Hons) Actuarial Mathematics

- UCAS code: NG31
- Duration: 3 years
- Typical offer: see page 10
- 120 Credits per year comprising: 80 Credits per year of Mathematics and 40 Credits per year of Business Finance and Economics
- Available with Year in Industry and Year Abroad schemes

Actuaries use mathematical, statistical, financial and economic theory to solve real business problems, typically involving risk, uncertainty and the financial impact of undesirable events. Traditionally, actuaries have been employed in the insurance and pensions industry, but there is increasing demand for their analytical skills in other parts of the private and public sector.

This programme is taught jointly by the School of Mathematics and Leeds University Business School. Two thirds of the time is spent developing the mathematical and statistical tools relevant to actuarial science, with the remaining one third spent on providing the business, finance and accounting background.

Year 1

In the first year of the course you will study key topics in mathematics, finance, economics and accounting. Year 1 modules cover probability, statistics, and the mathematics of financial and insurance markets. This year provides you with a thorough foundation in actuarial mathematics.

Year 2

In the second year you will build on the knowledge already acquired, studying specially chosen modules that will integrate aspects of actuarial mathematics. Core modules include financial mathematics, statistical methods, and financial accounting. There are also a number of optional modules covering topics in statistics, numerics, and advanced mathematics.

Year 3

In the final year, you will study core modules in actuarial mathematics, financial modelling and statistics. There is also the freedom to pursue your interests through a wide range of optional modules in mathematics, statistics, finance and economics.

The BSc (Hons) Actuarial Mathematics programme covers most of the content of The Actuarial Profession's (Institute/ Faculty of Actuaries) core technical subjects CT 1-8. On graduation, students will be able to apply for exemptions from some of The Actuarial Profession's exams.

BSc (Hons) Mathematical Studies

- UCAS code: G150
- Duration: 3 years
- Typical offer: see page 10
- 120 Credits per year comprising: 80 Credits per year of Mathematics and 40 Credits per year of electives
- Available with Year in Industry and Year Abroad schemes

The Mathematical Studies course shares many common features with the Mathematics programme, the main difference being the amount of time spent on subjects outside mathematics. Around two-thirds of your degree will be in mathematics modules. For the remainder of your degree you will have the choice to study a range of electives outside of mathematics.

The course is primarily a mathematics degree but allows the freedom to take electives, up to one third of the degree, from the wide range available across the University of Leeds.



Year 1

The first year of study contains an introduction to all the main areas of mathematics. It also gives you the opportunity to discover other subjects outside mathematics across many new and exciting topics.

Year 2

Having gained a firm grounding in the first year, in your second year you will have a choice of modules in different areas of mathematics (e.g. algebra, geometry, logic, analysis, fluid dynamics, relativity and statistics), as well as subjects outside mathematics.

Year 3

In the third year there is the opportunity to study a variety of options including the opportunity to carry out an in-depth project on a mathematical subject of your choice. This allows you to really get into a subject and provides a perfect complement to your other modules.

Our graduates go on to a variety of careers, including teaching but many also find work in the well-paid financial management sector.

BSc (Hons) Mathematics and Statistics

- UCAS code: GG13
- Duration: 3 years
- Typical offer: see page 10
- 120 Credits per year all in Mathematics and Statistics or choose to use 20 Credits per year in other subjects electives
- Available with Year in Industry and Year Abroad schemes

With this degree you study mathematics, with a strong emphasis on statistics. The world is full of confusing and seemingly contradictory information, whether it is about the evidence for climate change, the safety of vaccinations or the crime rate. Statisticians are the experts, who are qualified to collect, analyse and present data in a scientific and objective way, so that the right decisions can be made.

Statisticians are in high demand in both the private and public sectors, in areas such as market research, the pharmaceuticals industry and the NHS, environmental science, forensic science and government statistics. The programme is accredited by the Royal Statistical Society, qualifying you for graduate statistician status, the first step to becoming a chartered statistician.

Year 1

You will gain an introduction to all the main areas of mathematics and statistics, similar to the Mathematics degree. There is scope to move into Mathematics or Mathematical Studies should your interests or career plans change.

Year 2

Core modules include mathematical and statistical techniques. You also have a wide choice of modules including algebra, geometry, logic, analysis. The statistical modules cover topical subjects such as environmental statistics, as well as core statistical methods.

Year 3

At least half of your modules will be in statistics. You have the freedom to study a wide variety of options, including an in-depth project on a statistical subject.

Statisticians can find well-paid employment in both the private and public sectors covering virtually all areas of our modern lives.

Joint Honours Programmes

In Joint Honours degrees, you study two subjects in roughly equal proportions.

The skills and adaptability acquired by students combining disciplines within the Joint Honours framework are very attractive to employers and Joint Honours graduates have particularly good career prospects.

Admission to Joint Honours degrees is handled by the Parent School for each programme. All Joint Honours degree courses are parented and administered by one of their main subject schools. That school is responsible for dealing with admissions and for providing you with administrative, academic, and pastoral support during your time here. It will also allocate you a Personal Tutor.

Joint Honours programmes parented by the School of Mathematics

On the following pages, you can find details of the Joint Honours degrees which are parented by the School of Mathematics, including our typical offer for each course.

Our Joint Honours programmes are:

- BSc Biology and Mathematics (CG11);
- BSc Economics and Mathematics (GL11);
- BSc Geography and Mathematics (FG81);
- BSc Management and Mathematics (GN12);
- BSc Mathematics and Music (GW13).

Other Joint Honours degrees involving Mathematics

There is also a range of other subjects which can be combined with mathematics in a Joint Honours degree. Admission to these degrees is handled by the Parent Schools listed below. Please contact them with any enquiries which you may have.

Programme	Typical Offer	Parent School
BSc Chemistry and Mathematics	AAB including Chemistry and Grade A Mathematics at A-level	School of Chemistry admissions@chem.leeds.ac.uk
BSc French and Mathematics	AAB at A-level including Grade A in both French and Mathematics	School of Modern Languages and Cultures jointhonourslang@leeds.ac.uk
BSc German and Mathematics	ABB including German and Grade A Mathematics at A-level	School of Modern Languages and Cultures jointhonourslang@leeds.ac.uk
MNatSci, BSc Natural Sciences	AAA at A-level including at least two science subjects from Biology, Chemistry, Mathematics, Physics. Grade A at GCSE Mathematics if Mathematics is not offered at AS or A-level	School of Chemistry admissions@chem.leeds.ac.uk
BSc Mathematics and Philosophy	AAB including Grade A Mathematics at A-level	Department of Philosophy jointhonoursarts@leeds.ac.uk
BSc Physics and Mathematics	AAB including Physics and Grade A Mathematics at A-level	School of Physics and Astronomy physics.admissions@leeds.ac.uk

Joint Honours

BSc (Hons) Biology and Mathematics

- UCAS code: CG11
- Duration: 3 years
- Typical offer: AAB including Biology and Grade A Mathematics at A-level
- 120 Credits per year, divided roughly equally between Biology and Mathematics
- Available with Year in Industry and Year Abroad schemes

Biology and Mathematics is a truly interdisciplinary degree. Along with mathematics, you will study topics at the cutting edge of biological discovery and which reflect the complexity of the subject area, encompassing everything from molecules to populations of organisms. Advances in biological science have stimulated the development of new mathematics, leading to new ways of understanding our place in the universe.

The Faculty of Biological Sciences is one of the leading life sciences faculties in the UK and is at the forefront of recent computers-in-learning initiatives. The Undergraduate School is committed to providing students with the very best learning resources, academic support and student experience possible.

Year 1

In biology you will study key topics such as cell biology, genetics and applied biology. In mathematics you will study key topics, including calculus, differential equations and linear algebra, and you will also study probability and statistics.

Years 2 and 3

You take a combination of compulsory and optional modules in biology, such as population ecology, bioinformatics, and applied genetics, and in mathematics, including mathematical biology and statistical modelling.



Joint Honours

BSc (Hons) Economics and Mathematics

- UCAS code: GL11
- Duration: 3 years
- Typical offer: AAB including Grade A Mathematics at A-level
- 120 Credits per year divided roughly equally between Economics and Mathematics
- Available with Year in Industry and Year Abroad schemes

Combining the study of economics and mathematics will provide you with appropriate and complementary skills for a successful career in a range of industries and the public sector. The economic analysis of real-world problems requires advanced mathematical and statistical skills. These are highly regarded by companies and the government and are of real relevance when exploring and addressing economic issues.

Ranked in the world's top 100 (Economist 'Which MBA?' 2010), the Leeds University Business School is internationally renowned for the quality of its teaching, its research and its facilities. Research informs the content of all the courses that are delivered, ensuring students at all levels are exposed to the latest ideas, concepts and theories.

Year 1

In economics you will study key topics, including micro and macro economics and economic institutions. In mathematics you will study key topics, including calculus, differential equations and linear algebra. You will also study probability and statistics, and financial mathematics.

Years 2 and 3

You will enjoy a great deal of independence in shaping your studies from a wide range of advanced topics in economics and mathematics, including statistics and financial mathematics.



Joint Honours

BSc (Hons) Geography and Mathematics

- UCAS code: FG81
- Duration: 3 years
- Typical offer: AAB including Geography and Grade A Mathematics at A-level
- 120 Credits per year divided roughly equally between Geography and Mathematics
- Available with Year in Industry and Year Abroad schemes

Geography and mathematics are complementary disciplines. This programme develops a blend of intellectual skills, analytic, computational and discursive, which will distinguish you as having the flexibility and capability of synthesis that employers increasingly value.

As well as the numerous career opportunities open to well-qualified science graduates, there are many fast growing niche fields, such as environmental consultancy and civic planning, with strong demand for highly numerate graduates with technical geography expertise.

The School of Geography is one of the most innovative and successful geography departments in the UK. It seeks to be at the forefront of international research, helping to tackle major social, political and environmental challenges associated with global change and the School is committed to improving environmental sustainability.

Year 1

In geography you will learn key skills, learn about nature, society and the environment and choose an option from a range of areas. In mathematics you will study key topics, including calculus, differential equations and linear algebra, and you will also study probability and statistics.

Years 2 and 3

You have increasing flexibility to choose from a wide range of advanced modules in geography, mathematics and statistics, including topics such as environmental statistics.



Joint Honours

BSc (Hons) Management and Mathematics

- UCAS code: GN12
- Duration: 3 years
- Typical offer: AAB including Grade A Mathematics at A-level
- 120 Credits per year divided roughly equally between Management and Mathematics
- Available with Year in Industry and Year Abroad schemes

Our Management and Mathematics programme offers in-depth coverage of mathematics, statistics, economics and psychology embedded in a management context.

Exploiting the synergies between quantitative techniques and management theory will give you an edge in understanding the mathematical representation of business situations and the evaluation of evidence within complex organisational systems. This programme will provide you with analytical mathematical skills and management knowledge for a successful business career.

Ranked in the world's top 100 (Economist 'Which MBA?' 2010), the Leeds University Business School is internationally renowned for the quality of its teaching, its research and its facilities. Research informs the content of all the courses that are delivered, ensuring students at all levels are exposed to the latest ideas, concepts and theories.

Year 1

On the management side you will learn about key ideas from economics and human behaviour, while in mathematics you will study key topics, including calculus, differential equations and linear algebra. You will also study probability and statistics, and financial mathematics.

Years 2 and 3

You will continue to learn about key ideas in management, including the fields of marketing, human resources and business strategy. Within mathematics you will have a great deal of freedom to choose from advanced topics, including statistics and financial mathematics.



Joint Honours

BSc (Hons) Mathematics and Music

- UCAS code: GW13
- Duration: 3 years
- Typical offer: AAB including Music and Grade A Mathematics at A-level
- 120 Credits per year divided roughly equally between Mathematics and Music
- Available with Year in Industry and Year Abroad schemes

Links between mathematics and music have been established for centuries; properties of numbers and patterns have helped to shape musical culture in a variety of ways. This programme provides a thorough grounding in mathematical structures and techniques and allows students to explore a range of musical domains (such as composition, performance, analysis, music technology).

The School of Music is home to internationally recognised scholars and composers, first class resources, and extensive facilities. The School is extremely research active and also has a very active performance life, with a free lunchtime concert series and formal collaborations with external organisations such as Opera North.

“ I think that having the Maths element in my degree has been enormously beneficial and I feel that I have received a lot of support through lecturers who cater well for their Joint Honours students. ”

Caroline Swanson, BA Maths and Philosophy (International), fourth year student

Year 1

In mathematics you will study key topics, including calculus, differential equations and linear algebra. Your studies in music will include the science of music, and the option to study either performance or composition.

Years 2 and 3

You will enjoy a great deal of independence in shaping your studies from a wide range of advanced topics in mathematics and music. There are many mathematics modules relevant to music, including one specifically on the mathematics of music, and modules on algebra and Fourier analysis.



Industrial Placements

The Year in Industry scheme provides you with the opportunity to experience the world of full-time work, and earn a full salary, before you graduate.

Employers love the fact that graduates already have work experience and it can make all the difference in interviews when you are competing with other graduates. The extra experience will go a long way to boosting your self confidence, not only in your chosen subject area, but in the marketplace generally.

Our students have successfully found placements in companies such as:

- Morgan Stanley
- Ernst and Young
- Unilever
- Goldman Sachs
- Rolls Royce
- Fujitsu
- The Department for Work and Pensions

How does it work?

You transfer onto a four-year Industrial Placement version of your degree during your second year with us. You spend your third year working full-time and return to us for the fourth year. During your year in industry you will have an 'industrial supervisor' – someone employed in your chosen company, plus an academic supervisor from the School of Mathematics who will keep in touch, visit you at work, and take responsibility for your progress. Please note that a placement is obtained through a job application process.

“

About 70% of work placements lead to a graduate job offer.

Work experience shows employers that you're motivated, highlights your abilities and gives you the competitive edge over other applicants.

”

Emma Steele BSc Mathematics (Industrial), fourth year student

“My year in industry was at the Department of Work and Pensions. The placement was in operational research which I picked because I really like statistics. I love sitting there and just doing analysis and so I really did enjoy doing operational research. On my year in industry I gained lots of skills, such as technical skills. For example, I learned how to use SAS, which is statistical programming software. That is good because it has given me a different option to use in my project now that I'm studying for my fourth year. I also gained soft skills such as communication skills and had to work in a team with people who were much older than me. Some of them were my age but some were a lot older. Because I was the analyst, sometimes I was brought in into a

generalist team to do their analysis for them and so I was helping people senior to me with their work.

I definitely recommend doing a year in industry, because it really does show you that all this work at university is worth it. I used so many bits of my degree on my year in industry.

It makes you realise that you are learning for a reason, not just to sit an exam. So I really would recommend it, and I have so many friends from my placement who I still see now.”



Study Abroad

Spending a year, living and studying in another country, is a unique experience. Unlike the passing tourist, you have the chance to totally immerse yourself in another culture.

Our Study Abroad scheme gives you the confidence to live in any new society or country. You will gain unforgettable experiences and memories, together with the development of practical language skills and new contacts. These are things you will draw upon in your personal life for years to come, and which employers can instantly appreciate as being of 'added value'. We offer you a great opportunity, backed with strong support and guidance, wherever you spend your year abroad.

Our current exchange partners are as follows. Other destinations are also possible.

Europe

Copenhagen, Denmark
Heidelberg or Saarbrucken, Germany
Lisbon, Portugal
Lund, Sweden
Madrid, Spain
Paris, Rouen or Toulouse, France
Reykjavik, Iceland
Rome, Italy
Patras, Greece
Utrecht, The Netherlands
Vienna, Austria

North America

University of California, various campuses
Penn State, Pennsylvania
Urbana-Champaign, Illinois
Waterloo, Ontario

How does it work?

You transfer to this scheme during Year 1 or 2, subject to grades and availability of a place. Often, all eligible students who wish to study abroad find a place. If appropriate, you take foreign language elective modules in Year 2. You spend Year 3 studying at a foreign university and return to Leeds for Year 4. You are awarded a degree (International, or similar), on successful completion.

For more information visit

www.maths.leeds.ac.uk/admissions/study-abroad.html

John Power MMath, BSc Mathematics (International), fourth year student

"I went to Penn State University in the States and it was fantastic. I chose America, because there's so much American culture over here I was curious to see what it is like in real life. I discovered that the academic system is very different, they teach maths in a different way with mid-term exams instead of big exams at the end. There is a different emphasis on homework and they use text books in a different way.

Travelling was fantastic, being able to go and visit places at spring break and thanksgiving, those are some of my best memories. Getting to the heart of the American experience by having thanksgiving dinner with my friends and their family, was really special. The clubs and societies that the Americans have are on a bigger scale and I tried lots of new stuff, like canoeing. I ended up representing my college at a national level which was really surprising. I would definitely recommend study abroad to others without a shadow of a doubt."



Zakiyyah Ismail BSc Mathematics (International), fourth year student

"I spent my third year on Erasmus in Heidelberg in Germany, studying Maths in German. It was absolutely fantastic. When I first got there it was initially very daunting but I adapted to the change and after a while I fell in love with the place. Studying Maths in another language is difficult but it's definitely a worthwhile experience.

My confidence has increased, mainly because when I arrived in Germany I didn't know anyone and I had to talk to people to make friends. My networking skills have greatly improved and obviously my German language skills are a lot better now.

I would thoroughly recommend that every student do a year abroad. One, because I had the best year of my life; it was so much fun. Two, because it does greatly increase your skill set. Three, because it's nice to say 'Oh, I study Maths, but I also speak German!' And four, it gives you a different insight because now I've seen two academic systems."



Accommodation

As a first year student you are guaranteed a place in university accommodation, provided you apply for it in time!



There are many different types of accommodation to choose from, from small self-catered flats to catered halls of residence, based on campus, in the city centre or further afield. And, of course, different residences have different facilities: launderettes, parking spaces, squash courts, pool tables, common rooms, shops, music practice rooms, etc. All of our residences provide internet access.

Visit www.leeds.ac.uk/accommodation for details of how to apply and application deadlines.

How much?

Approximate prices, based on 2011/12 figures, range from £74 per week for a single room in self-catering accommodation, up to £162 per week for a large single room with en-suite bathroom in an on-campus hall with 12 meals per week.

What about the second year onwards?

Beyond their first year, most students prefer to live in rented accommodation. Headingley is a suburb of Leeds that is popular with students. It is only a 20 minute walk or 5-10 minute bus journey from Headingley to the University. It has cinemas, pubs, supermarkets – just about everything you need. It is also within easy access of the city centre and main public transport terminals.

Unipol can help you find student accommodation in the Leeds area.

www.unipol.leeds.ac.uk/leeds

Student Testimonials

We're proud of the experience we give all our students – but don't just take our word for it. Here are the views of some of our current undergraduates...

“I definitely wanted to do Maths because I did it at A-level and really enjoyed it. I was also interested in economics but I hadn't studied that at all. Leeds University was the one that combined the two equally and so I decided to do it here. There are a lot of different areas that are highlighted to us in different modules which weren't available at other universities.

Studying Economics and Mathematics has definitely improved my analytical skills and I've begun to show much more keen interest in what's going on in the world around me. Also I see how Maths and Economics are so intricately related to everything that is going on in the world.”

Farrah Hamid , BSc Economics and Maths, third year student

“My Personal Tutor is really useful. If I have a problem with Maths I can go to him but he doesn't just talk to me about my course, he tries to open my eyes about what I should be doing for the future. He really guides me for my career aspirations.

The best thing about the School is that the lecturers have an open door service, so if you have a query about any of the homework, they're always there to help. They are really enthusiastic about what they teach and they want you to learn more beyond the subject.”

Sita Shah, BSc Mathematics with Finance, second year student

“Student life here in Leeds is busy. When you aren't doing the Maths, you do have a lot you can do and you have to relax and do other things. There are lots of societies you can join and you can do anything and everything. I have started doing photography for the Leeds Student newspaper. I have met people who have done it already and they have been showing me the ropes. The newspaper is quite a big part of the University and so it's nice to see my pictures distributed everywhere.”

Jonathan Pennells, BSc Mathematics, second year student

Why you should study maths at Leeds

- You will be taught within a prestigious school with a strong record for teaching and research
- You will have a choice of flexible degree programmes
- You will receive an exceptional learning experience, being taught in small group tutorials
- You will have the choice of benefitting from a year in industry, or a year studying abroad
- You will be part of a friendly school with approachable staff
- You will be part of a lively university, with a fantastic union, within a 10 minute walk of a vibrant and cosmopolitan city
- You will have access to excellent on-campus facilities including a newly built sports centre, several large, well-equipped libraries and a Union with an outstanding reputation
- You will become one of the UK's top graduates, with a degree highly sought after by employers
- You will receive exceptional student support, through your Personal Tutor, student mentors, peer assisted learning, Leeds University Union and central University support services

We Welcome International Students



The University has links with over 600 institutions worldwide and up to 5,000 international students study with us each year. You will find Leeds has a vibrant mix of culture, commerce and style, and is one of the most cosmopolitan cities in the UK.

There is a dedicated International Centre at the University that will provide support and advice throughout your time at Leeds University. They also organise a host of events for international students – a great chance to meet new friends.

Many students enjoy their time at Leeds so much they stay on to live and work in the city after graduation. For more information see the website at www.leeds.ac.uk/international

We regularly offer places to students with a wide variety of non-UK qualifications and are happy to discuss individual cases. For more information see our website www.maths.leeds.ac.uk/admissions or contact the Admissions Tutor, at maths.admiss@leeds.ac.uk

English Language entry requirements

If your first language is not English, you will need to provide us with evidence of an approved English language qualification. Typical examples include: GCSE or 'O' level grade C or better, or 6.0 overall on IELTS, with at least 5.5 in each of listening, reading, speaking and writing.

International Foundation Year

If you are not able to gain the equivalent of A-level qualifications in your own country, you could consider applying to our International Foundation Year, which enables students to progress to a range of undergraduate degree courses at the University of Leeds. This popular course has an excellent pass rate and combines the study of the English language with key academic subjects to prepare you for an undergraduate degree. For more information please visit the website at www.leeds.ac.uk/international/foundation

Applying to Leeds

Applications

We welcome applications from people of all ages and backgrounds who are passionate about studying mathematics.

Please make your application through the Universities and Colleges Admissions Service (UCAS). You can apply online at www.ucas.ac.uk

Within your UCAS application, your personal statement is your chance to show us your passion for mathematics. Please tell us about any achievements which indicate your potential for success at university, about any independent study, and about anything unusual about your circumstances.

We may use your results on individual maths and further maths modules to assess your application, so please give full details in your UCAS application.

Fees and Scholarships

2012 is a year of big changes in the ways in which student finance works. As the precise details of fees and financial arrangements are still being agreed with Government as this document is going to press we have not included any precise details of fees here. You can find out the very latest information on fees and student support arrangements online at www.leeds.ac.uk/yourfinances

The University of Leeds has a long standing history of helping students to manage their finances while at University. We have a comprehensive range of bursaries and scholarships, together with financial advice, to support you throughout your studies.

Some schemes provide support on the basis of academic achievements while others offer support to students based on financial need or personal circumstance.

For full information about the University's tuition fees, bursaries and scholarships please see www.leeds.ac.uk/yourfinances or contact ugscholarships@leeds.ac.uk if you have any questions.

Entry Requirements

Typical offers in terms of A-levels are listed on page 10 for single honours degrees and pages 17 – 21 for the Joint Honours degrees we parent. We will normally allow General Studies A-level or Critical Thinking to count as one of the three A-levels.

Besides A-levels, we welcome applications from people with equivalent qualifications. For the International Baccalaureate our typical offer for single honours degrees is 34 points including 6 in Mathematics at higher level. Other

examples of typical offers are listed on our website

www.maths.leeds.ac.uk/admissions

Applicants must also meet the University's matriculation requirement of five subjects to the level of GCSE, including English at Grade C, or equivalent.

If you are not sure whether your qualifications are acceptable, or have any other questions, the Mathematics Admissions Team will be very happy to advise.

Mathematics Admissions Team

Dr Daniel Read
(Admissions Tutor)

Dr Matt Daws
(Assistant Admissions Tutor)

Ms Claire Gerner
(Admissions and Recruitment Administrator)

Mrs Jacqui Korzepa
(Undergraduate Admissions Officer)

Mathematics Admissions Team
School of Mathematics
University of Leeds
Leeds LS2 9JT, UK
Tel: +44 (0) 113 343 5133
Email: maths.admiss@leeds.ac.uk

Visit the Mathematics undergraduate website at www.maths.leeds.ac.uk

Visit the School



University open days

The University runs several Open Days over the summer for students who have not yet applied to university. This year they are on Friday 24th and Saturday 25th June and Saturday 8th October 2011. At the School of Mathematics, you can come to hear a talk on university level mathematics, or drop in for a chat with admissions tutors and current students. All other University schools and departments will be open for you to look round, and most will have demonstrations, talks or members of staff available for you to meet with and question. There will also be tours of the main campus facilities, including the opportunity to view some University accommodation. These Open Days are a great opportunity if you want to find out more about our School and the University, or if you are still deciding which subject to apply for.

Post-application visit afternoons (PAVAs)

If we make you an offer we will also invite you to one of our visit afternoons, which will run between February and April. This is your chance to get a feel for studying maths at Leeds and to gather all the information you need to help you make your final choice. The format will depend on the course you have applied for, but a typical afternoon may include a detailed talk from an Admissions Tutor about your course and the University, meeting current students as they take you on a campus tour, information about University accommodation, and plenty of opportunity to ask questions with our staff and students. We aim to help you make your decision in as well-informed manner as possible. 40% of those who visited us at one of our PAVAs this year put us down as their firm choice.

Key facts

University Open Days:

24th and 25th June and
8th October 2011.

www.leeds.ac.uk/opendays

Post-Application

Visit Afternoons:

Selected afternoons
between February
and April.

Any questions?

Please e-mail

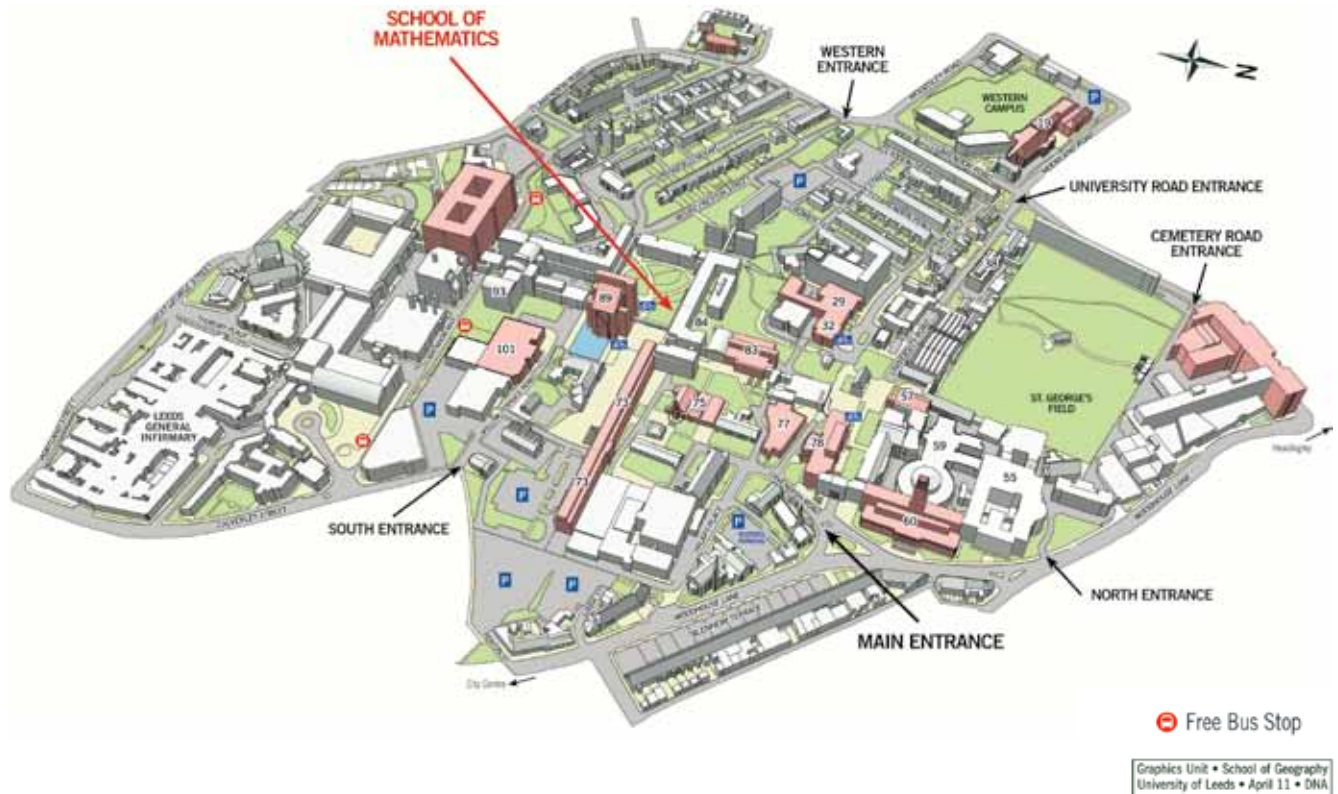
maths.admiss@leeds.ac.uk

For more information and how to find us, see the admissions website

www.maths.leeds.ac.uk/admissions/visitus.html

All dates/times correct at the time of going to press.

Campus Map



19 Leeds University Business School
29 Refectory
32 Leeds University Union (LUU)
38 School of Geography
55 School of Chemistry
57 Great Hall
59 Brotherton Library

60 Parkinson Building
73 EC Stoner Building
73 School of Physics and Astronomy
75 School of Music
77 Marjorie and Arnold Ziff Building
78 Michael Sadler Building
78 School of Modern Languages

78 School of Philosophy
83 Edward Boyle Library
84 School of Mathematics
89 Roger Stevens Building
93 Faculty of Biological Sciences
101 The Edge

Why Leeds?

The University

The University of Leeds is acclaimed worldwide for the quality of its teaching and research. As one of the largest universities in the UK, Leeds is also one of the most popular among students applying for undergraduate courses.



The University places a high value on providing its students with a fulfilling education in their chosen discipline. But, in addition to giving all undergraduates a solid academic foundation, the University also offers practical careers advice and support so that graduates can use the knowledge and skills they acquire at Leeds to make the most of the opportunities that life presents.

The interactive website 'Leeds for Life' www.leeds.ac.uk/leedsforlife provides information and links to resources which will help you get the best out of your degree and student life.

Leeds is among the top ten universities for research in the UK and is internationally acknowledged as a centre of excellence in a wide range of academic and professional disciplines. Its broad research and skills base and superb facilities attract interest from major multinationals and small local businesses alike. Many of its research initiatives cross traditional subject boundaries and Leeds currently promotes projects through several inter-disciplinary centres and research schools.

As a large campus university, our on-site facilities are extensive.

The University also has a brand new swimming pool and Sports Centre. The impressive design includes a 200 station fitness suite and a sauna and steam room.

See <http://sport.leeds.ac.uk>

There is also a large Student Union – Leeds University Union (LUU) – within which can be found a book shop, hairdresser, optician, travel agent, newsagents and much more. There are also a wide variety of eateries, cafés and bars across campus.

The Student Union has a huge reputation for organising and hosting major entertainment events and live music gigs. With 200+ student societies offering a huge choice of pursuits from Buddhist meditation to dry stone walling, Student Radio to the Theatre Group – you are bound to fill your free time. LUU also has a Student Advice Centre that offers expert advice and support with just about any query you can think of. See: www.luuonline.com

The campus is only a 10-minute walk from the city centre where you'll find many shops, cinemas, clubs and café bars.



Why Leeds? The City

Regularly voted the UK's most popular student city, Leeds knows how to draw in the crowds. It has a trendy café-bar scene, clubs to rival the best in the country, restaurants offering world cuisine, and live music across the city each night, from rock and jazz to opera.

Leeds Fact File

- Located in West Yorkshire, UK
- Total population of Leeds: 750,000
- The UK's top financial and legal centre after London
- A multicultural and multi-faith city

For more information check out:

www.leeds.gov.uk

www.yorkshire.com

www.yorkshire.com/yorkshiredales

www.wyp.org.uk

www.royalarmouries.org

www.leedsconcertseason.com

www.yorkshiremuseum.org.uk

www.leedsliveitloveit.com



Leeds is a key social hub of the North of England with a vibrant mix of culture, commerce and style, and is one of the most cosmopolitan cities in the UK.

Shopaholics beware: the School of Mathematics is only a short walk from the centre of Leeds. With its traditional markets, high street favourites and designer boutiques, every budget is catered for.

Leeds is also a city of culture with plenty of theatres, museums and cinemas. 'Opera North', the 'Northern Ballet Theatre' and the 'West Yorkshire Playhouse' ensure a stunning line-up of entertainment each year, with affordable student tickets available for most performances.

The city offers an extensive choice of places to eat and drink. All culinary tastes are catered for, from Italian to Thai, Caribbean to vegetarian. Nightlife in and around the city is also known for its diversity and popularity.

If sport is more your thing, why not head for the pitch? Local teams include Leeds United FC, the Rhinos and Leeds Carnegie (rugby), and the Yorkshire County Cricket Club. Better still, get in on the action with a range of sporting activities from judo to netball organised in clubs across the city.

You'll also find Leeds is one of the greenest cities in Britain, with more parkland than any other European city.

You are also never far away from the impressive Yorkshire Dales with its awe-inspiring scenery and a huge selection of outdoor activities and pursuits.

Diverse and beautiful, Yorkshire offers miles of countryside, including National Parks and award-winning gardens, set amid vibrant cities and market towns. There's great shopping opportunities and the chance to explore the rugged heritage coast before journeying back in time at one of the region's many historical sites.

Stunning peaks, lush valleys, gentle rolling hills and of course the rolling jigsaw coast – the great outdoors is brimming with opportunities for fun and activity. Yorkshire's three National Parks offer more than 1000 square miles of beautiful land and seascapes, just waiting to be explored. With such a lot going on, your friends and family will want to visit.

Luckily, Leeds is easy to get to, by train, road or plane. Once you're here, public transport around the city is cheap and frequent, and students benefit from excellent discounts. (That said, the city centre is quite compact and you will have no problems exploring on foot!).



Frequently Asked Questions

What is the difference between Mathematics and Mathematical Studies?

Essentially Mathematics allows you to spend up to one sixth of your study on subjects other than Mathematics. Mathematical Studies allows even more – one third. It's designed to be flexible so that students can pursue other subjects, whilst still studying more mathematics than a Joint Honours degree provides.

What is the difference between Single Honours and Joint Honours?

In our Single Honours degrees the majority of your time is studying mathematics, whilst in a Joint Honours degree your time is split more evenly between two subjects. So, for example, in BSc Maths with Finance (Single Honours) you spend two-thirds of your time on Mathematics courses, whereas in BSc Economics and Mathematics (Joint Honours), over the course of the degree you spend roughly equal time on each subject.

Is an interview required?

An interview is not normally required, apart from in exceptional circumstances.

Do I need to have done 'Further Maths'?

No. Not all of our students have studied Further Maths at school. However, it is an advantage, and this is reflected in our typical offers for Single Honours degrees.

Does the offer include General Studies?

We will normally allow General Studies or Critical Thinking to count as one of the three A-levels.

I don't have A-level Mathematics, is another qualification equivalent?

We accept many other qualifications; check out the website for details www.maths.leeds.ac.uk/admissions

Will I get an offer?

Most of our applicants get an offer. If we think that you may be able to meet our entry requirements, it is likely that we will be able to make you an offer.

I'm a mature student who hasn't studied Maths for some years, what are my chances?

We welcome and positively encourage applications from mature students. We require applicants to be able to achieve at the level of a grade A in A-level Mathematics. As preparation, we encourage you to take A-level Mathematics at a FE college, and maybe also Further Maths, at least at AS-level.

Can I take a gap year?

Yes, you can apply before, or after, your A-levels.

What should I put in my personal statement?

Your personal statement gives us more of an idea of the person you are. Please tell us about your interests outside school as well as your motivation for studying mathematics.

If there's anything unusual in your background that isn't covered elsewhere in the form, this is the place to put it!

Will I just be another nameless face in the crowd?

Not in this School! You will have a Personal Tutor and a student mentor.

Can I change courses?

It is usually possible to switch between degree courses within mathematics, provided your request is made early enough. It is sometimes possible to transfer between mathematics and other subjects, including Joint Honours.

For further questions see www.maths.leeds.ac.uk/admissions/faq.html or send these to maths.admiss@leeds.ac.uk





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