



Mathematical Sciences

 NSS 2018
93% OVERALL SATISFACTION IN
MATHEMATICS AND STATISTICS

 AWARD-WINNING MATHEMATICS
LEARNING SUPPORT CENTRE

 THE TIMES AND SUNDAY TIMES
GOOD UNIVERSITY GUIDE 2019
11TH FOR MATHEMATICS





Why study Mathematical Sciences?

Mathematics is a thrilling and stimulating subject which is not only fascinating to study in its own right but also underpins a great variety of endeavours such as science, commerce and industry.

It has a natural elegance and splendour, taking real world problems and creating mathematical models to aid understanding.

A mathematics degree is actively sought by employers and opens many doors to subsequent employment and further study. This is partly because of its vast scope and array of applications, and partly because its study equips

students with the numerical abilities, logical thinking and analytical skills that are crucial to the success of diverse organisations within commerce, banking and finance, management and industry. Through innovative teaching we will equip our students with these skills while also opening up the many facets of this rich and stimulating discipline.

Active in high-quality research across the broad spectrum of mathematics, the Department has an international reputation and has attracted staff and students from all over the world, making it a diverse and stimulating environment in which to study.

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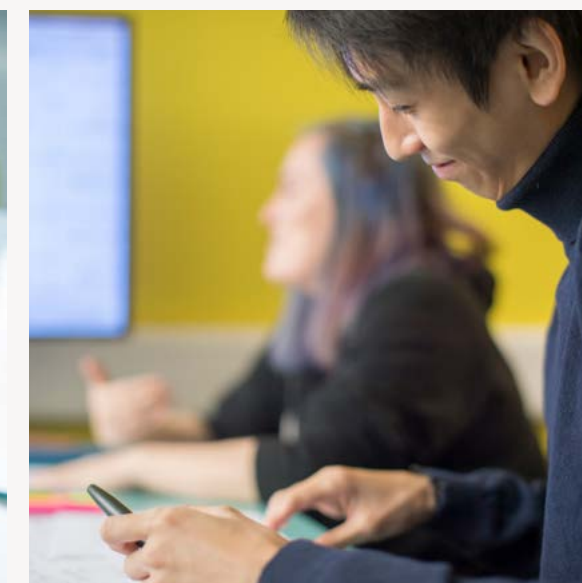
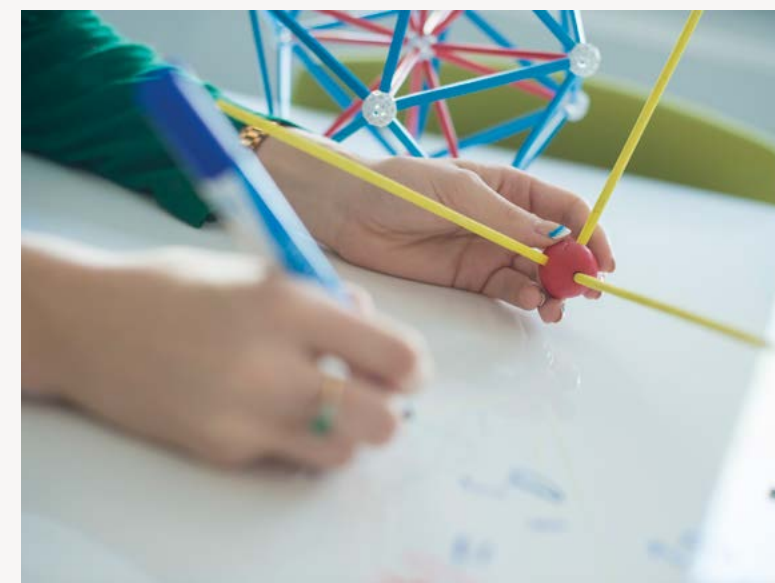
PAID PLACEMENTS
AVAILABLE ON ALL
OUR COURSES



LLOYDS BANK QUALITY
OF STUDENT LIFE SURVEY
BEST STUDENT
EXPERIENCE



GUARDIAN UNIVERSITY
GUIDE 2020
UNIVERSITY
RANKED 4TH



An excellent learning environment

The Department of Mathematical Sciences is located in the Schofield Building, which is based centrally on the University campus. The building has recently undergone a £4.5 million refurbishment to equip it with dedicated resources for mathematics students.



A RESPECTED LEADER IN
MATHEMATICS EDUCATION
SUPPORT
HOME OF THE AWARD-
WINNING MATHEMATICS
LEARNING SUPPORT CENTRE



£4.5 MILLION
INVESTMENT IN
DEDICATED FACILITIES
FOR MATHEMATICS
AND STATISTICS



Your Mathematical Sciences department

As a student within the Department of Mathematical Sciences you will benefit from 24/7 access to state-of-the-art computer labs in the Schofield Building and also from our co-location with the Mathematics Learning Support Centre.

The Mathematics Learning Support Centre provides a range of services designed to support any student at Loughborough University in their learning of mathematics or statistics. In particular, it aims to help students in the earlier stages of their studies, who might benefit from resources and tuition over and above what is normally provided as part of their programme. In addition to a wide variety of printed and online resources, a member of academic staff is available within the centre for four hours each day to provide one-to-one help.

The wide-reaching reputation of Loughborough University's Department of Mathematical Sciences attracts international visitors, and both staff and students benefit from a comprehensive series of seminars, guest speakers and public lectures.

Women in Mathematics

Loughborough University holds the Athena SWAN Bronze Award, recognising its commitment to improving the representation and career progression of women in STEM (science, technology, engineering and mathematics) subjects.

The Department of Mathematical Sciences is committed to creating a diverse and inclusive culture in which students are able to thrive, regardless of their gender. As a Loughborough University mathematics student you will be invited to attend the Claudia Parsons lecture – our annual celebration of women in STEM. You will benefit from the support of our peer mentoring scheme and have the opportunity to attend Women in Mathematics events all over the country.

You will also be encouraged to take part in outreach activities and work as an ambassador at open days, inspiring prospective students just like you.

The Department is a supporter of the London Mathematical Society Good Practice Scheme to embed equal opportunities for women within its working practices.

—
"I was attracted to the University for the support it provides to students, including the Mathematics Learning Support Centre, which I have found really helpful during my time here."

—
Heena
MMath Mathematics



For out more about the Mathematics Learning Support Centre: www.lboro.ac.uk/mlsc

Our courses

All our courses give students a solid grounding in the fundamentals of mathematics and allow them to specialise in a number of areas including statistics and mathematics education.

Our courses in accounting and finance, economics and management are co-taught by the School of Business and Economics – one of the UK's leading business schools. Our Mathematics and Sport Science course is co-taught by Loughborough's renowned School of Sport, Exercise and Health Sciences which has been ranked first in the world for the study of sports-related subjects for two years running by QS World University Rankings.

Financial Mathematics

Mathematics and Accounting and Financial Management
Mathematics and Sport Science
Mathematics
Mathematics with Economics
Mathematics with Statistics
Mathematics with a Foundation Year

BSc or MMath?

Our BSc courses will equip you with the numerical abilities, logical thinking and analytical skills required to work in a diverse range of roles within a diverse range of organisations. If you have a desire to work as a professional mathematician in industry, commerce, or higher education, or pursue a research career, the MMath course will provide you with the more advanced level of study needed to work towards your aims.



Financial Mathematics

BSc (Hons) 3 years full-time

UCAS code: GN13

BSc (Hons) DPS/DIntS* 4 years full-time sandwich

UCAS code: GNC3

Entry Requirements

A level: AAA including Mathematics

IB: 37 (6,6,6 HL) including HL Mathematics

BTEC Level 3 Diploma: 12 units at Distinction plus A level Mathematics Grade A, or 6 units at Distinction plus AA in two A levels including Mathematics



Mathematics plays an important role in the financial services industry and there is a growing demand for graduates with knowledge and understanding of both financial matters and the relevant mathematics.

Our Financial Mathematics degree provides thorough training in both aspects with a range of modules in economics, finance and mathematics, including specialist modules that deal directly with applications of mathematics in finance. Through a comprehensive programme that includes modules in probability theory, stochastic processes, statistical modelling, corporate finance, and asset pricing, the course will equip you with an understanding of methodologies and techniques that are essential for jobs in banking and finance.

This course is evenly divided between the two main subject areas. It draws upon the expertise of both the Department of Mathematical Sciences and the University's School of Business and Economics to provide insights into mathematics, accounting and financial management in the "real world" context of business and commerce.

Designed for those who wish to gain knowledge of corporate finance, accounting and financial management as well as the powerful mathematical tools used in the financial and business sector, the problem-solving skills and accounting skills acquired make graduates highly attractive to a wide range of employers.

Accreditation has been obtained for this course from several of the professional institutes in accountancy.

Mathematics and Sport Science

BSc (Hons) 3 years full-time

UCAS code: CG61

BSc (Hons) DPS/DIntS* 4 years full-time sandwich

UCAS code: GC16

Entry Requirements

A level: AAA including Mathematics

IB: 37 (6,6,6 HL) including HL Mathematics

BTEC Level 3 Diploma: 12 units at Distinction plus A level Mathematics Grade A, or 6 units at Distinction plus AA in two A levels including Mathematics



This joint honours course is an opportunity to combine the study of mathematics with the study of sport science at one of the UK's leading universities for sport science.

Sport science modules will be taught by world-leading experts from within the School of Sport, Exercise and Health Sciences - ranked first in the world for sports-related subjects in the QS World University Rankings by Subject 2017 and 2018.

Loughborough's School of Sport, Exercise and Health Sciences boasts extensive laboratories allowing the very best learning experience for our students. Not only that, but you'll have access to the excellent facilities on campus, including our unrivalled sports facilities.

The combined study of mathematics and sport science is one that reflects particular strengths of Loughborough University and is not available at many other institutions.

Mathematics and Accounting and Financial Management

BSc (Hons) 3 years full-time

UCAS code: G1N4

BSc (Hons) DPS/DIntS* 4 years full-time sandwich

UCAS code: G1NK

Entry Requirements

A level: AAA including Mathematics

IB: 37 (6,6,6 HL) including HL Mathematics

BTEC Level 3 Diploma: 12 units at Distinction plus A level Mathematics Grade A, or 6 units at Distinction plus AA in two A levels including Mathematics



*DPS/DIntS: Diploma in Professional Studies/Diploma in International Studies.

Placement opportunity Study abroad Additional award Accredited course

www.lboro.ac.uk/maths

Mathematics

MMath (Hons) 4 years full-time
UCAS code: G103

MMath (Hons) DPS/DIntS* 5 years full-time sandwich
UCAS code: G104

BSc (Hons) 3 years full-time
UCAS code: G100

BSc (Hons) DPS/DIntS* 4 years full-time sandwich
UCAS code: G101

Entry Requirements

A level: AAA including Mathematics

IB: 37 (6,6,6 HL) including HL Mathematics

BTEC Level 3 Diploma: 12 units at Distinction plus A level Mathematics Grade A, or 6 units at Distinction plus AA in two A levels including Mathematics



Our Mathematics course provides a balanced study of the most important aspects of maths so that you can achieve a thorough understanding of the fundamentals to help prepare you for a successful career.

A mathematics degree is actively sought by employers and opens many doors to subsequent employment and further study. This is partly because of its vast scope and array of applications, and partly because its study equips students with the numerical abilities, logical thinking and analytical skills that are crucial to the success of organisations within commerce, banking and finance, management and industry.

The course enables you to study the broad scope of mathematics, guided by the expertise of our respected academic staff, and to tailor your degree to suit your interests and aspirations through wide ranging optional modules.

Mathematics with Economics

BSc (Hons) 3 years full-time
UCAS code: G1L1

BSc (Hons) DPS/DIntS* 4 years full-time sandwich
UCAS code: G1LC

Entry Requirements

A level: AAA including Mathematics

IB: 37 (6,6,6 HL) including HL Mathematics

BTEC Level 3 Diploma: 12 units at Distinction plus A level Mathematics Grade A, or 6 units at Distinction plus AA in two A levels including Mathematics



Economics relates to every aspect of our lives, from the decisions we make as individuals to the policies adopted by governments and the products and services offered by companies. Economics will give you new perspectives on some of the most pressing and challenging problems and choices facing the world today. This course enables you to combine the study of economics with mathematics, equipping you with excellent tools to not only understand global challenges, but also to provide solutions.

The course provides a solid grounding in mathematics together with an understanding of economics sufficient to prepare graduates for careers in areas such as actuarial work, business forecasting and economic model building. No previous knowledge of economics is necessary as the first two years provide a comprehensive introduction to theory and policy in both macroeconomics and microeconomics.

Mathematics with Statistics

BSc (Hons) 3 years full-time
UCAS code: GG13

BSc (Hons) DPS/DIntS* 4 years full-time sandwich
UCAS code: GG1H

Entry Requirements

A level: AAA including Mathematics

IB: 37 (6,6,6 HL) including HL Mathematics

BTEC Level 3 Diploma: 12 units at Distinction plus A level Mathematics Grade A, or 6 units at Distinction plus AA in two A levels including Mathematics



The importance of statistics in today's information age cannot be overstated. Statistics are the tools we use to evaluate ideas, test theories, and inform policies. Statistics help us arrive at the truth. We live in an era where more data is collected than ever before, and demand is high for talented statisticians.

Our Mathematics with Statistics course provides a thorough grounding in mathematics, combined with a very substantial statistics and probability component, right up to modern applications, such as in medical statistics, and a major final-year project, which offers a connection to contemporary statistics research.

Mathematics with a Foundation Year

UCAS Code: G102

Mathematics with a Foundation Year is for candidates who for some reason have not had the opportunity to study the pre-requisite subjects needed for first year entry. Offers will not normally be made to those who apply simply because their A level grades/predictions are below the requirements for direct entry.

Successful completion of the one year Foundation course allows you to progress onto any of the courses in our Department.

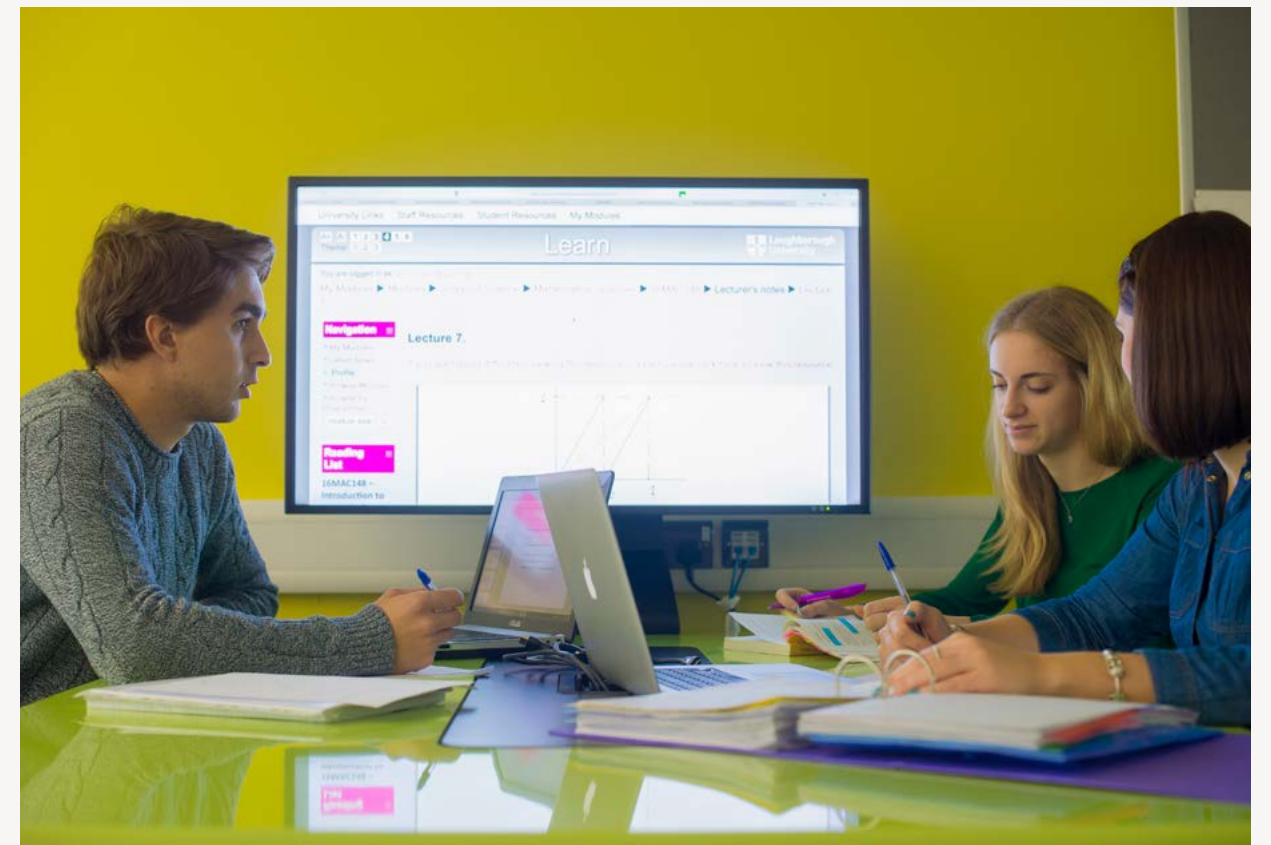
For further details and entry requirements, please visit:
www.lboro.ac.uk/foundation



THE COMPLETE
 UNIVERSITY GUIDE 2020
 TOP 20 FOR
 MATHEMATICS



THE TIMES AND SUNDAY
 TIMES GOOD UNIVERSITY
 GUIDE 2019
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For more information about all our courses, including modules, please visit the online prospectus:

www.lboro.ac.uk/study/undergraduate/courses/study-areas/mathematical-sciences

Placements and careers

As a department we have a strong tradition for working with industry. The partnerships we build with external organisations strengthen the relevance of our teaching and our research. They also provide the opportunity for students to secure placements and graduate employment.

Outstanding placement opportunities

All our courses offer a year-long placement (sandwich) option, giving you the opportunity to spend a year building experience within an industrial, commercial or research establishment. The Mathematics department has established good relationships with a variety of companies.

Examples of recent placement destinations include:

- Department of Health
- Morgan Stanley
- Total Gas & Power
- Johnson & Johnson
- Samsung Electronics UK
- Goldman Sachs International
- IBM
- LHR Airports Ltd
- University of Technology Sydney
- Ernst & Young
- Mercedes AMG High Performance
- Virgin Media Ltd
- Hilton
- Jaguar Landrover

Excellent career prospects

A degree in mathematics opens the door to a wide variety of careers, particularly roles in which analytical skills, logic, reasoning, problem-solving and high levels of numeracy are prized.

Here are just some of the exciting careers graduates have gone on to pursue:

- Analyst Consultant, Atos
- Technology Risk Consultant, KPMG
- Exposure Analyst, Lancashire Insurance Group
- International Graduate, Standard Chartered Bank
- Global Graduate Leader, Aviva
- KYC Analyst, Barclays (Switzerland)
- Quantity Surveyor, Norman Rourke Pryme
- Officer Cadet, British Army
- Forensic Financial Investigator, Mazars
- Data Analyst, IBM
- Production Manager, Serious Stages Ltd



"I have most enjoyed studying what I love. The course has allowed me to expand my knowledge of a subject which I am passionate about, and has made me really excited to finish my degree and use this knowledge."

—
Jill
BSc Financial Mathematics



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UNIVERSITY
OF THE YEAR



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This brochure was written several months in advance of the academic year to which it applies (2020). Every effort has been made to ensure that the information contained within is accurate at the time of publishing, but updates (for example to course content) are likely to occur due to the time between publication and the course start date. It is therefore important to visit our online prospectus at www.lboro.ac.uk/study before applying to check for any updates, as this will be the most up-to-date repository of information.



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