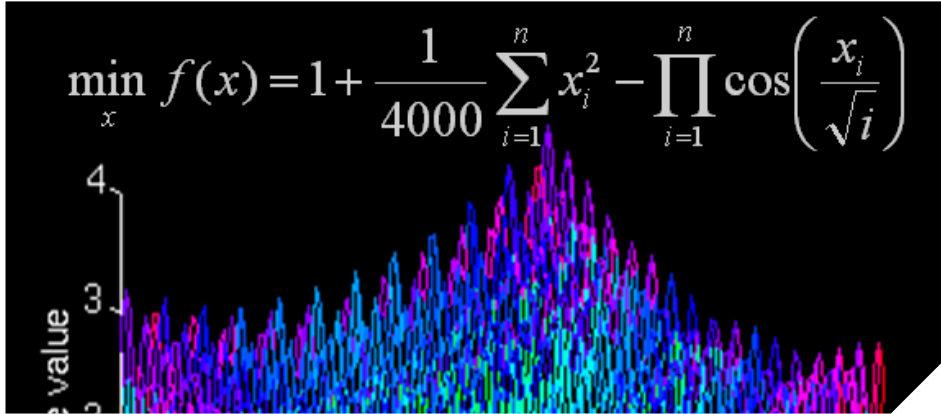


MSc Mathematics



Programme Overview

Mathematics is a fascinating and exciting subject. It is the language of modern business and commerce, engineering, science and technology and is as old as mankind. At Liverpool Hope, you will develop a passion and enthusiasm for mathematics and its applications. Mathematics encompasses many analytical and numerical methods that are used to solve scientific and industrial problems.

The MSc at Liverpool Hope has been designed to develop your analytical and problem solving skills, and has project work at its core. Mathematicians are needed in all areas of science and industry, and the skills they bring to those working environments can be invaluable.

You will have the chance to work on your own project with guidance and support from experts in their respective fields. You will learn the skills necessary to be an efficient mathematician in industry and in academia. As well as learning these skills, you will also be taught a variety of exciting mathematical topics.

Why Choose Liverpool Hope

The mathematics programmes currently being delivered have always been highly rated in the National Student Survey and League Tables. The employability rate of our graduates has always been high, with over 90% of our recent graduates being in graduate level employment within 6 months of graduation.

Being a small department means that you get to know us quickly, and we get to know you. This enables us to support you in a way that the larger universities may not be able to. The department prides itself on excellent teaching quality recognised by a recent independent review, which specifically identified approachable staff providing close academic support.

The department has also been rated highly in the latest research excellence framework (REF2021) in which 70% of our outputs were rated as either internationally excellent or internationally recognised.

Key Information

Award: MSc Mathematics

Study Mode: Full Time

Duration: 1 year

Intake: October

Entry Criteria: A minimum of a Second-Class Honours degree in a relevant discipline awarded by a UK university, or an equivalent higher education qualification.

Fees and Funding: For fees and funding information please see <http://www.hope.ac.uk/postgraduate/feesandfunding/>

School: Mathematics, Computer Science and Engineering.

Student Recruitment,
enquiry@hope.ac.uk

Disclaimer: Information is correct at time of print, however programme details can change.



Curriculum

The curriculum is split up into three 60 credit courses – Core Mathematics, Additional Mathematics, and Mathematical Project. Core and Additional will run in terms 1 and 2, with the Mathematics Project running in the third term.

The programme will cover a range of taught topics, and will cover topics such as:

- Discrete and continuous integrable systems
- Mathematical Biology
- Algebraic Geometry
- Fractal Geometry
- Numerical Analysis
- Riemann Surfaces
- Lie Groups
- Singularity Theory
- Dynamical Systems and Bifurcation Theory
- Perturbation Methods and Asymptotic Theory
- Data Science & Statistics
- Markov Chain Monte Carlo
- Professional Skills
- Projects

The design of the course is such that you will be exposed to a variety of different topics and skills which employers are looking for.

Assessment is through a mixture of coursework and class tests. The ethos within the department is to foster enthusiasm for mathematics and so assessment is largely through project work, giving you the opportunity to explore the subject area and focus on those specific topics that capture your interest. The project entails research as well as delving deeper into mathematics by utilising the ideas developed during the programme of study.

Research Environment

The course team at Liverpool Hope is a small and enthusiastic team of lecturers who have a passion for mathematics. For several years, they have delivered high quality undergraduate teaching in an innovative and exciting way. So much so that the course was rated highly by its students in the National Student Survey, and also appears high up in a variety of league tables, showing the quality of the teaching and support that is given at Liverpool Hope.

The school hosts a vast array of computer equipment and has five dedicated labs of PCs within the department. The equipment is updated on a regular basis and the software is always current. You will get the chance to use software such as Matlab and SPSS, and also have access to R and C programming software.



Future Career Opportunities

An MSc in Mathematics is seen as an essential prerequisite for entry onto any research based degree such as PhD or MPhil.



**LIVERPOOL
HOPE
UNIVERSITY**

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