UNIVERSITY OF LIVERPOOL

BSc (Hons)

# Mathematical Sciences BSc (Hons) (Foundation, 4 year route with Carmel College)

**UCAS code** G108

| **Study mode** | **Duration** | Apply by: **29 January 2025** |
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| Full-time | 4 years | Starts on: **22 September 2025** |

## About this course

This is a four year programme with the first year being a foundation year taken at Carmel College. After completion of the first year you can then progress on to your chosen programme within the Department of Mathematical Sciences.

## Introduction

A degree in Mathematical Sciences from the University of Liverpool is a highly regarded qualification that will open many doors. From core maths to theoretical physics, financial maths to biostatistics, you can choose quality programmes and options that match your ambitions.

This programme provides a four-year route to a number of BSc (Hons) degree programmes offered in the Department of Mathematical Sciences. For the first year you will be based at Carmel College, St Helens.

Students follow the Foundation Year (at Carmel College) and then can opt to follow one of a wide range of mathematical sciences programmes offered. Carmel College, St Helens, about nine miles from the university campus, offers small class sizes and high standards of academic achievement.

Find information about what essential and optional modules you will need to take during your Year Zero at Carmel College to progress to your chosen University of Liverpool degree programme in our guide to progression routes

## What you'll learn

- A strong foundation to progress on to your chose BSc programme
- How to present and communicate clearly
- Teamwork
- Problem solving

## Routes

- Applied Mathematics BSc (Hons)
- Mathematics BSc (Hons)
- Mathematics and Computer Science BSc (Hons)
- Mathematics and Economics BSc (Hons)
- Mathematics and Philosophy BA (Hons)
- Mathematics and Statistics BSc (Hons)
- Mathematics with Finance BSc (Hons)
- Mathematics with Languages BSc (Hons)
- Mathematics with Ocean and Climate Sciences BSc (Hons)
- Physics and Mathematics BSc (Hons)

Back to top

# Course content

Discover what you'll learn, what you'll study, and how you'll be taught and assessed.

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### Year zero

The first year you will be based at Carmel College. At the College you will follow three foundation modules chosen from Mathematics, Chemistry, Physics, Biology or Geography. Your module choice depends on the programme you wish to follow after the foundation year.

Programme details and modules listed are illustrative only and subject to change.

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### Teaching and assessment

## How you'll learn

You will be taught through a mixture of lectures, tutorials, practical classes, problem classes, private study and supervised project work. In year one, lectures are supplemented by group tutorials and computing work is carried out in supervised practical classes.

Key study skills, presentation skills and group work start in first-year tutorials and are developed later in the programme. The emphasis in most modules is on the development of problem solving skills, which are regarded very highly by employers. Project supervision is on a one-to-one basis, apart from group projects in year two.

## How you're assessed

Most modules are assessed by a two and a half hour examination in January or May, but many have an element of coursework assessment. This might be through homework, class tests, mini-project work or key skills exercises.

## Liverpool Hallmarks

We have a distinctive approach to education, the Liverpool Curriculum Framework, which focuses on research-connected teaching, active learning, and authentic assessment to ensure our students graduate as digitally fluent and confident global citizens.

The Liverpool Curriculum framework sets out our distinctive approach to education. Our teaching staff support our students to develop academic knowledge, skills, and understanding alongside our **graduate attributes**:

- Digital fluency
- Confidence
- Global citizenship

Our curriculum is characterised by the three **Liverpool Hallmarks**:

- Research-connected teaching
- Active learning
- Authentic assessment

All this is underpinned by our core value of **inclusivity** and commitment to providing a curriculum that is accessible to all students.

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Back to top

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# Careers and employability

A mathematically-based degree opens up a wide range of career opportunities, including some of the most lucrative professions as employers value mathematicians' high level of numeracy and problem solving skills.

Typical types of work our graduates have gone onto include:

- actuarial trainee analyst in the audit practice
- graduate management trainee risk analyst
- trainee chartered accountant on a graduate business programme.

Recent employers of our graduates include:

- Aston University
- Deloitte
- EuroMoney Training
- Norwich Union
- Venture Marketing Group
- Wolsley Group.

Back to top

# Fees and funding

Your tuition fees, funding your studies, and other costs to consider.

## Tuition fees

### UK fees (applies to Channel Islands, Isle of Man and Republic of Ireland)

Full-time place, per year - £9,535
Foundation year fee - £7,500
Year abroad fee - £1,430 (applies to year in China)

Following the foundation years, standard course fees apply.

The tuition fees shown are correct for 2025/26 entry. Please note that the year abroad fee also applies to the year in China.

Tuition fees cover the cost of your teaching and assessment, operating facilities such as libraries, IT equipment, and access to academic and personal support. Learn more about paying for your studies.

## Additional costs

We understand that budgeting for your time at university is important, and we want to make sure you understand any course-related costs that are not covered by your tuition fee. This could include buying a laptop, books, or stationery.

Find out more about the additional study costs that may apply to this course.

Back to top

# Entry requirements

The qualifications and exam results you'll need to apply for this course.

### A levels

### T levels

T levels considered in a relevant subject and specialism.

Applicants should contact us by completing the enquiry form on our website to discuss specific requirements in the core components and the occupational specialism.

### GCSE

All applicants must have a minimum of five GCSEs at grade C/4 or above, including English Language, Mathematics and two Sciences. Core and Additional Science/Dual Science acceptable as the two Sciences. Alternatively, if separate sciences are being studied then one of these must be GCSE Physics. Applicants over 21 can be considered on GCSEs alone.

### International qualifications

Select your country or region to view specific entry requirements.

Many countries have a different education system to that of the UK, meaning your qualifications may not meet our direct entry requirements. Although there is no direct Foundation Certificate route to this course, completing a Foundation Certificate, such as that offered by the University of Liverpool International College, can guarantee you a place on a number of similar courses which may interest you.

# Alternative entry requirements

- If your qualification isn't listed here, or you're taking a combination of qualifications, contact us for advice
- Applications from mature students are welcome.

Back to top

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