

BSc (Hons)

Chemical Sciences BSc (Hons) (4 year route including a Foundation Year at Carmel College)

UCAS code F108

Entry requirements

A level: CDD

Study mode

Full-time

Duration

4 years (1+3)

Apply by: **30 June 2026**Starts on: **28 September 2026**

About this course

If you love chemistry and want to keep your future career options open, this programme offers a solid grounding in all aspects of chemistry, while allowing you to incorporate some non-chemical options to broaden your education.

Introduction

This is the ideal option if you think you want to start studying chemistry at a lower level than the three-year BSc (Hons) Chemistry programme and are uncertain of an area of specialism.

You spend the foundation year at Carmel College (St Helens) studying chemistry and mathematics with options from biology, geography and physics. [Carmel College](#) is located in St Helens, about nine miles from the main University campus. The College 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

- Practical application of chemistry
- Material chemistry
- Energy and catalysis
- Functional interfaces
- Medicine and bio-nano chemistry
- Theoretical and computational chemistry
- Renewable and sustainable chemistry
- Numeracy and problem solving.

Accreditation

Our BSc programmes have bachelor accreditation from the Royal Society of Chemistry (RSC) ensuring your degree with us will set you on the pathway to a successful career.

Accreditation in detail

Royal Society of Chemistry

The Royal Society of Chemistry is a learned society for chemists in the United Kingdom.

Routes

- [Chemistry BSc \(Hons\)](#)
- [Chemistry with a Year in Industry BSc \(Hons\)](#)
- [Medicinal Chemistry BSc \(Hons\)](#)

- [Ocean Sciences BSc \(Hons\)](#)

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Course content

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

Year zero

Students follow a programme covering basic sciences including compulsory modules in:

- Chemistry
- Mathematics

And optional modules chosen from:

- Biology
- Geography
- Physics

On successful completion of the programme at Carmel College, students transfer to the first year of their chosen degree programme.

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

Teaching and assessment

How you'll learn

This four-year Chemical Sciences degree programme aims to provide broad coverage of all aspects of chemistry with the foundation year at Carmel College.

How you're assessed

Assessment is mainly by examination and coursework but, depending on the modules taken, you may encounter project work, presentations (individual or group), and specific tests or tasks focused on solidifying learning outcomes. Students are expected to score an overall mark of 50% to progress to the second year of the course. In second year, students will start on the first year of their selected degree programme at the University of Liverpool.

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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Careers and employability

Our graduates develop a wide range of skills including numeracy, problem solving and IT in addition to scientific skills. Visits to the Department by leading companies such as GlaxoSmithKline and Unilever ensure that you make contact with prospective employers at key stages in your final year.

Typical careers of our graduates include

- assistant analyst
- development chemist
- research assistant
- site chemist.

Recent employers:

- GlaxoSmithKline
- Unilever
- IOTA Nanosolutions Ltd
- Perstorp Caprolactones
- Shell
- Towers Watson
- United Utilities.

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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 - £9,790

Foundation year fee - £9,790

Year in industry fee - £1,955

Year abroad fee - £1,465 (applies to year in China)

International fees

Year in industry fee - £1,955

The fees shown are for the academic year 2026/27. Please be advised that tuition fees may increase each year for both UK and international students. For UK students, this will be subject to the government's regulated fee limits.

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

You cannot apply for the foundation programme if you require a visa to study in the UK. However, some UK-based international students may be eligible to apply. If you are eligible to apply, your fee status assessment will determine if you pay home or international fees.

Find out more about the [additional study costs](#) that may apply to this course.

Entry requirements

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

A levels

CDD

A typical offer is likely to be CDD at A level, in related subjects. Students with alternative A level combinations are welcome to apply but should expect to be made higher offers. For further information, visit www.carmel.ac.uk, email degree@carmel.ac.uk or telephone +44 (0)1744 452 213. Applicants over 21 can be considered on GCSEs alone.

T levels

T levels are not currently accepted.

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 Chemistry. 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.
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English language requirements

You'll need to demonstrate competence in the use of English language, unless you're from a [majority English speaking country](#).

We accept a variety of [international language tests](#) and [country-specific qualifications](#).

International applicants who do not meet the minimum required standard of English language can complete one of our [Pre-Sessional English courses](#) to achieve the required level.

IELTS

6.5 overall, with no component below 5.5

TOEFL iBT

If you took a TOEFL test on or before 20 January 2026, you'll need 88 overall, with minimum scores of listening 17, writing 17, reading 17 and speaking 19. If you took a TOEFL test from 21 January 2026 onwards, when a new scoring system was introduced, you'll need 4.5 overall, with 4 or above in all components. TOEFL Home Edition not accepted.

Duolingo English Test

125 overall, with speaking, reading and writing not less than 105, and listening not below 100

Pearson PTE Academic

61 overall, with no component below 59

LanguageCert Academic

70 overall, with no skill below 60

Cambridge IGCSE First Language English 0500

Grade C overall, with a minimum of grade 2 in speaking and listening. Speaking and listening must be separately endorsed on the certificate.

Cambridge IGCSE First Language English 0990

Grade 4 overall, with Merit in speaking and listening

Cambridge IGCSE Second Language English 0510/0511

0510: Grade B overall, with a minimum of grade 2 in speaking. Speaking must be separately endorsed on the certificate. 0511: Grade B overall.

Cambridge IGCSE Second Language English 0993/0991

0993: Grade 6 overall, with a minimum of grade 2 in speaking. Speaking must be separately endorsed on the certificate. 0991: Grade 6 overall.

Cambridge ESOL Level 2/3 Advanced

176 overall, with no paper below 162

Pre-sessional English

Do you need to complete a Pre-sessional English course to meet the English language requirements for this course?

The length of Pre-sessional English course you'll need to take depends on your current level of English language ability.

Pre-sessional English in detail

If you don't meet our English language requirements, we can use your most recent IELTS score, or [the equivalent score in selected other English language tests](#), to determine the length of Pre-sessional English course you require.

Use the table below to check the course length you're likely to require for your current English language ability and see whether the course is available on campus or online.

Your most recent IELTS score	Pre-sessional English course length	On campus or online
6.0 overall, with no component below 5.5	6 weeks	On campus or online
5.5 overall, with no more than one component at 5.0	10 weeks	On campus or online
5.5 overall, with no component below 5.0	12 weeks	Online
5.0 overall, with no component below 5.0	20 weeks	On campus
5.0 overall, with no component below 4.5	30 weeks	On campus
4.5 overall, with no more than one component at 4.0	40 weeks	On campus

If you've completed an alternative English language test to IELTS, we may be able to use this to assess your English language ability and determine the Pre-sessional English course length you require.

Please see our guide to [Pre-sessional English entry requirements](#) for IELTS 6.5 overall, with no component below 5.5, for further details.

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