BEng (Hons)

Engineering Foundation (4 year route including a Foundation Year at Carmel College)

UCAS code H109

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

About this course

Studying this programme provides a route into any of the BEng degree programmes currently available in the School of Engineering.

Introduction

You will undertake a foundation year (year zero) at Carmel College, St Helens, about nine miles from the university campus, where the class sizes are small and the standards of academic achievement high.

The programme, which is moderated by University staff, comprises introductory modules in Physics and Mathematics, with students choosing a third optional module from Chemistry or Information Technology. In year two, three and four, students follow their chosen course from a number of available Engineering programmes.

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

- Skills needed for independent study at undergraduate degree level
- Undertaking a variety of learning methods and assessment tasks
- Laboratory and field work
- Practical experience and highly desirable skills to the engineering industry

Routes

- Aerospace Engineering BEng (Hons)
- Aerospace Engineering with Pilot Studies BEng (Hons)
- Aerospace Engineering with Pilot Studies with a Year in Industry BEng (Hons)
- Aerospace Engineering with a Year in Industry BEng (Hons)
- Architectural Engineering BEng (Hons)
- Civil Engineering BEng (Hons)
- Civil Engineering with Year in Industry BEng (Hons)
- Computer Science and Electronic Engineering BEng (Hons)
- Computer Science and Electronic Engineering with Year in Industry BEng (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

The module choices for this programme are fixed. Students follow three compulsory foundation modules in physics, mathematics and additional mathematics (which is similar to further mathematics). In discussions with the HE team at Carmel College students who have already achieve a grade B or above in A level mathematics may be able to take computing as an optional module in lieu of mathematics.

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

Teaching and assessment

How you'll learn

We are leading the UK's involvement in the international Conceive-Design-Implement-Operate (CDIO) initiative – an innovative educational framework for producing the next generation of engineers.

Our degree programmes encompass the development of a holistic, systems approach to engineering. Technical knowledge and skills are complemented by a sound appreciation of the life-cycle processes involved in engineering and an awareness of the ethical, safety, environmental, economic, and social considerations involved in practicing as a professional engineer.

You will be taught through a combination of face-to-face teaching in group lectures, laboratory sessions, tutorials, and seminars. Our programmes include a substantial practical component, with an increasing emphasis on project work as you progress through to the final year. You will be supported throughout by an individual academic adviser.

How you're assessed

Assessment takes many forms, each appropriate to the learning outcomes of the particular module studied. The main modes of assessment are coursework and examination. Depending on the modules taken, you may encounter project work,

presentations (individual and/or group), and specific tests or tasks focused on solidifying learning outcomes.

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

The University of Liverpool's Careers and Employability Service maximises opportunities for career prospects, graduate opportunities, student summer placements and the annual engineering careers fair with 30 blue chip companies attending (including Jaguar Land Rover, Nestle, Toyota, JCB, British Army, United Utilities, ABB Ltd, Network Rail, BAE Systems and many more). Our degrees provide pathways into rewarding careers and our graduates have found employment in a wide range of international industries and organisations.

Our research-led teaching ensures that we incorporate the latest advances in cutting edge engineering research. 95% of our research is deemed world leading or internationally excellent, and is highly regarded by engineering industries and partners. As well as achieving a degree qualification, you will graduate as an industry-ready engineer who has both practical experience and highly desirable skills to the engineering industry.

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Fees and funding

Your tuition fees, how to pay, 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, assessment. operating University facilities such as libraries, IT equipment, and access to academic and personal support.

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.

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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.

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