

Engineering (with a Foundation Year)

A four-year route to a range of BEng degree programmes within the School of Engineering.



UCAS Code: H109 | 4 Years (1+3) | Full-time

This course provides students with the opportunity to enter a range of degree programmes within the School of Engineering.

Entry Requirements

A typical offer is likely to be CDD or 80 points in three subjects at A Level, preferably in related subjects. Students with alternative A Level combinations are welcome to apply but should expect to be made higher offers. All students must meet the baseline GCSE requirements of 5 GCSEs at grade C or above including Mathematics (grade 5 if numerical), English Language (grade 4 if numerical) and Sciences (either core and additional science or two separate sciences). Adult learners will be considered without Level 3 qualifications but must meet the GCSE requirements and may be invited for interview. Students with overseas qualifications should contact the college to enquire about whether their qualification are accepted for entry.

Students holding offers at the University of Liverpool may be made a change of course offer to H109, after the examination results, if they fail to gain the required number of points for their first choice course.

Applicants will be expected to fall into one of the following categories:

Adult learners returning to education with A Level passes

Adult learners returning to education with 5 GCSE / O Level passes or more inc. Maths, Sciences and English Language

Sixth Form school leavers currently studying A Levels or BTEC L3 Extended Diploma (Applied Science)

Students from within the European Union

CONTACT

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Course Modules

All students will study three subjects: **Physics, Mathematics and Additional Mathematics** over two semesters.

Mathematics (2 semesters compulsory)

The course aims to introduce students to graph work, differentiation and integration, vectors, statistics, trigonometry, logarithms, iteration and partial fractions. Students can expect to develop problem solving and analytical skills.

Physics (2 semesters compulsory)

The module explores in some depth the topics of measurement, mechanics, electricity thermodynamics, atomic physics, forces, magnetism, materials, waves and oscillations. Assignments are set on a regular basis, aimed to extend the ideas studied as part of the lecture course. Practical work is used to reinforce theory.



Additional Mathematics (2 semesters compulsory)

This module covers sequencing and series, binomials, complex numbers, polynomials, differentiation, mechanics, momentum, vectors and differential equations. Students can expect to further develop their problem solving and analytical skills.

Progression

Assessment is by examination and coursework. Students are expected to score an overall mark of 50% to progress to the second year of the course. In the second year students will start on the first year of the many programmes available in the Faculty of Engineering. (NB: For Aerospace programmes (*), an overall average of over 50% is needed in Maths and Physics in order to progress into Year 1). A full list of the available programmes is given below.

- 3D52 Industrial Design
- H100 Engineering
- H200 Civil Engineering
- HK26 Architectural Engineering
- H300 Mechanical Engineering
- H401 Aerospace Engineering with Pilot Studies*
- H425 Aerospace Engineering*
- H430 Avionic Systems
- H603 Electrical and Electronic Engineering
- H605 Electrical and Electronic Engineering with a year in industry (4 yrs)
- HG6L Computer Science and Electronic Engineering with a year in industry (4 yrs)
- HH66 Computer Science and Electronic Engineering
- HH67 Mechatronics and Robotic Systems
- HHP7 Mechatronics and Robotic Systems with a year in industry

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