



# Product Design Engineering MEng

## COURSE DETAILS

A level requirements: **AAB**

UCAS code: HW25

Study mode: Full-time

Length: 4 years

## KEY DATES

Apply by: **29 January**

**2025** (<https://www.ucas.com/students>)

Starts: 22 September 2025

## Course overview

This programme brings together the traditional discipline of design engineering and new product development. The result is a truly modern engineering degree that provides you with a solid technical grounding in engineering that prepares you for a successful career in industry.

### INTRODUCTION

You'll study core engineering subjects such as solid mechanics, fluid mechanics, thermodynamics, materials and electronics and computer programming. Alongside, you'll learn product design techniques such as design communication, human factors, product development and project management. These foundations will give you an understanding of the science that underpins product design engineering.

In years three and four, you will move on to advanced engineering science, working on complex design engineering projects that reflect real-life in industry. Unique to this programme is a 300-hour individual product design engineering project on a topic of your choice, demonstrating design and engineering knowledge as well as practical design skills. You will also take part in a two-year Capstone project, which is designed to transform students from novice design engineers into professionals.

This programme also has a year abroad option, an incredible opportunity to spend an academic year at one of our partner universities. On the 4-year integrated masters programme, you can go abroad either between Year 2 and 3 (apply in Year 2) OR Year 3 and 4 (apply in Year 3).

### WHAT YOU'LL LEARN

Design engineering and new product development

Work on complex design engineering projects that reflect real-life in industry

300-hour individual product design engineering project on a topic of your choice

Two-year Capstone project in years three and four



### Teaching Excellence Framework 2023

We're proud to announce we've been awarded a Gold rating for educational excellence.

Find out why we're rated Gold (<https://www.liverpool.ac.uk/undergraduate/tef-gold-rating/>) >

# Course content

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

## YEAR ONE

In year one you will study the core engineering subjects that provide fundamental knowledge of engineering science alongside product design techniques that underpins the practice of product design engineering.

### COMPULSORY MODULES

#### ^ SOLIDS AND STRUCTURES 1 (ENGG110)

##### **Credits: 15 / Semester: semester 2**

This module aims to introduce students to the fundamental concepts and theory of how engineering structures work to sustain loads. It will also show how stress analysis leads to the design of safer structures. It will also provide students with the means to analyse and design basic structural elements as used in modern engineering structures.

#### ^ DESIGN COMMUNICATION (ENGG115)

##### **Credits: 7.5 / Semester: semester 1**

This module provides students with essential foundational skills in effective hand sketching, visualisation, and final presentation of design ideas. Students are instructed in principles, examples, and demonstrations regarding the use of a variety of design communication media and techniques, for the purposes of conceiving, developing and presenting product design ideas.

#### ^ ENERGY SCIENCE (ENGG116)

##### **Credits: 15 / Semester: semester 2**

To develop an understanding of the basic principles of fluid mechanics, the laws of thermodynamics, and an appreciation of how to solve simple engineering problems. To develop skills in performing and reporting simple experiments.

#### ^ PROFESSIONAL ENGINEERING: A SKILLS TOOLKIT (ENGG111)

##### **Credits: 30 / Semester: semester 3**

This module aims to provide students with an interesting and engaging project that will help them to immediately relate the material being taught, both within and without this module, to a practical problem that is identifiable to their engineering discipline, thus reinforcing its relevance to the topic.

The module:

- 1) Seeks to provide students with an early understanding of the preliminary design processes
- 2) Will introduce students to formal engineering drawing and visualisation
- 3) Will expose the students to group work and the dynamics of working in a team
- 4) Will expose students to the complexity of an engineering design task
- 5) Will enable students to develop data analysis and plotting skills
- 6) Will embody an approach to learning that will engage the students for the remainder of their lives
- 7) Seeks to provide students with an early understanding of the detail design and manufacturing process
8. Will introduce students to industry standard computer aided engineering drawing tools and practice
9. Will enable students to develop report writing and oral presentation skills
10. Will provide students with a basic understanding of engineering components and mechanisms
11. Will embody an approach to learning that will engage the students for the remainder of their lives

#### ^ ENGINEERING MATHEMATICS (ENGG198)

##### **Credits: 22.5 / Semester: semester 2**

ENGG198 is a Year 1 mathematics module for students of programmes taught in the School of Engineering, e.g. Aerospace, Civil, Architectural, Mechanical, Product Design and Industrial Design Engineering. It is designed to reinforce and build upon A-level (or equivalent) mathematics, providing you with the strong background required in your engineering studies and preparing you for Year 2 mathematics modules.

## ^ INTRODUCTION TO ENGINEERING MATERIALS (MATS105)

### **Credits: 15 / Semester: semester 2**

To provide students with a basic introduction to various classes of engineering materials, their mechanical properties, deformation and failure and how the properties structure and processing can be controlled to design materials with desired properties for various engineering applications.

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

## **YEAR TWO**

In year two you will continue to study core engineering subjects solidifying the fundamental knowledge of engineering science in these subjects.

### **COMPULSORY MODULES**

#### ^ **PRODUCT DEVELOPMENT 2 (ENGG220)**

### **Credits: 15 / Semester: semester 3**

Following on from Y1, this module aims to further develop the student understanding of product development. In an open-ended studio setting, students will build on Y1 learning and further gain an understanding and appreciation of getting from an idea to a finished product. Successful students will be able to develop and articulate ideas in the form of sketch work and traditional model prototypes to an intermediate level. This will be assessed through project work.

#### ^ **HUMAN FACTORS IN PRODUCT DESIGN: THEORY (ENGG222)**

### **Credits: 7.5 / Semester: semester 1**

The module will introduce students to anthropometric and ergonomic concepts, and to the capabilities and constraints of the physical, cognitive and cultural makeup of human beings. Successful candidates will have acquired knowledge and understanding of how human factors affects the design and development of new products.

#### ^ **HUMAN FACTORS IN PRODUCT DESIGN: PRACTICE (ENGG224)**

### **Credits: 7.5 / Semester: semester 1**

This module follows on from the prerequisite module, Human Factors: Theory, this module will continue to develop anthropometric and ergonomic concepts, and the capabilities and constraints of the physical, cognitive and cultural makeup of human beings. Successful candidates will have acquired knowledge and understanding of how human factors affect the design and development of new products.

#### ^ **ENGINEERING MATHEMATICS II (MATH299)**

### **Credits: 7.5 / Semester: semester 1**

To introduce some advanced Mathematics required by Engineers, Aerospace Engineers, Civil Engineers and Mechanical Engineers. To assist students in acquiring the skills necessary to use the mathematics developed in the module.

#### ^ **MANAGING PRODUCT DEVELOPMENT (MNGT205)**

### **Credits: 7.5 / Semester: semester 1**

The module teaches the management of new product development. It is taught in a traditional lecture style culminating in an exam.

Successful students will have acquired knowledge and understanding at a broad level of the process and how it is executed in a modern industrial environment.

## ^ ENGINEERING DESIGN (MECH212)

### **Credits: 15 / Semester: semester 3**

Professional Engineering can be defined as the application of science in the solution of problems and the development of new products, processes and systems. It is vital that all Engineering graduates have a solid design education; and this module is a core part of that.

In Year 1 students are introduced to the basic tools and techniques involved in engineering design.

In this module students are taught the basics of design theory in a lecture setting; but crucially they are required to apply this learning in a 24-week group project to design an innovative engineering product.

Students are given a design brief and are "coached" through product design specification; creative conceptual design; detailed design; 3D CAD modelling; design for manufacture, assembly and environment; and materials selection.

The module also enables students to develop and practice teamwork, communication, project management and problem solving skills.

## ^ THERMODYNAMICS (MECH217)

### **Credits: 15 / Semester: semester 3**

Steam, standard air and refrigeration cycles

## ^ SOLIDS & STRUCTURES 2 (ENGG209)

### **Credits: 15 / Semester: semester 2**

This module aims to introduce students to techniques for load and displacement analysis of simple structures.

## ^ PRODUCT FORM AND MATERIALS (ENGG226)

### **Credits: 7.5 / Semester: semester 1**

This module aims to introduce students to materials and manufacturing issues at the core of industrial design practice. Students will develop an appreciation of how materials positively and negatively influence people's perception, appreciation and experiences of designed products. Students will also gain an understanding of the key considerations involved in turning ideas for product form into manufacturable components. An active learning approach will be taken, where students engage in practical exercises and projects to develop their knowledge and skills.

## ^ MATERIALS PROCESSING AND SELECTION I (MATS214)

### **Credits: 7.5 / Semester: semester 1**

This module introduces the main materials processing and manufacturing techniques used to shape metals. It also introduces technologies used to modify the surface properties of metal components, and heat-treatment procedures used to change materials' mechanical properties.

## ^ MATERIALS PROCESSING AND SELECTION II (MATS210)

### **Credits: 7.5 / Semester: semester 1**

This module covers non-metallic materials and materials selection. The students will understand the processing, microstructure and properties of ceramic, polymer and composite materials. The students will also learn how to derive materials performance indices and select materials for mechanical design.

## PROJECT MANAGEMENT (MNGT202)

### Credits: 7.5 / Semester: semester 1

Project Management is a core skill for professional engineers of all types and a sound education in this subject area is required by the professional accrediting bodies. The knowledge and skills developed in this module will equip students for their future UG project work and for their careers ahead.

This module teaches students the theory of fundamental techniques in project management, risk management, and cost management.

In this module students undertake a group "virtual project" in which they undertake all stages of project management involved in a major construction project. The five virtual project tasks require students to apply their theoretical learning; and they provide an opportunity to develop key professional skills.

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

## YEAR THREE

In year three, you move on to study advanced engineering science and work on complex design engineering projects that reflect real-life in industry.

### COMPULSORY MODULES

#### INDIVIDUAL DESIGN PROJECT (INDD341)

### Credits: 30 / Semester: semester 2

The Year 3 Individual Design Project; 300 hours student work over 2 semesters; 3 assessment stages: (1) Project Plan and Literature Review (PPLR) – 10%; (2) Interim presentation and viva – 20%; (3) Final report, viva and artefact – 70%.

#### MECHANICAL ENGINEERING CAPSTONE 1 (MECH327)

### Credits: 15 / Semester: semester 3

The 2-year Capstone Projects are a hallmark of the Mechanical Engineering MEng programmes at Liverpool. They are group projects in which students apply their scientific knowledge, design training and management skills to design-build-test innovative engineering products or systems. These projects provide students an opportunity to develop and evidence a wide range of technical, personal and professional skills. The Capstone modules make the greatest contribution to graduate employability.

Students are given the choice of project from a portfolio of 6–8 options: some target international sporting competition (eg Velocipede or Formula Student); others are industry-led and address real world challenges (eg Nuclear Rover decommissioning robot with NNL or Paediatric Wheelchairs with Alder Hey Hospital). The range of available projects varies each year.

Each project team is assigned an academic project supervisor and a dedicated member of technical staff. You will work closely with these staff and a range of other technical experts from industry and/or the research community. It should be noted that the students "own" their project and it is their responsibility to specify, plan, manage and report on all project work.

Students will be timetabled for 4-hours per week but will be expected to spend a significant amount of additional time working on their project.

A variety of assessment methods are used that are as close as possible to professional engineering practice.

At four key points in the year the Careers and Employability Service will join the module to help students reflect on, record in CV, and communicate at interview the professional development.

#### PRODUCT DEVELOPMENT 3 (ENGG320)

### Credits: 15 / Semester: semester 3

Following on from Y1 and Y2, this module aims to further develop the student understanding of product development. In an open-ended studio setting, students will build on Y1 and Y2 learning and further gain an understanding and appreciation of getting from an idea to a finished product. Successful students will be able to develop and articulate ideas in the form of sketch work and traditional model prototypes to an advanced level. This will be assessed through project work.

## ^ ADVANCED MODERN MANAGEMENT (MNGT352)

### **Credits: 7.5 / Semester: semester 1**

The Aims of this module are as follows:

- To introduce the student to various aspects of advanced modern management.
- To develop a knowledge and understanding of modern management tools.
- To stimulate an appreciation of management and its importance in organisational success.

## ^ MATERIALS DESIGN (MATS303)

### **Credits: 7.5 / Semester: semester 2**

To develop an understanding of the important factors in materials selection and process selection for engineering components' design and manufacture. To develop skills in communication, investigative research, experimental techniques, and team-working, including presentation skills associated with technical posters and wikis.

## ^ HEAT TRANSFER (MECH301)

### **Credits: 15 / Semester: semester 2**

The aim of this module is to give the students a good understanding of the basic mechanisms of heat transfer and to equip them to solve significant engineering problems.

They will also learn about different designs of heat exchanger and how to carry out performance/design calculations.

## ^ MECHATRONICS (MECH316)

### **Credits: 7.5 / Semester: semester 1**

This module aims to provide students with an appreciation of the challenges related to the design of Mechatronics systems.

Both hardware and software integration issues will be studied within this module.

General design principles will be introduced first and learning will focus on the popular Arduino platform.

## ^ MANUFACTURING SYSTEMS (MNFG321)

### **Credits: 15 / Semester: semester 1**

This module investigates how Manufacturing Systems function, considering the interaction of the Manufacturing Systems with external and internal constraints. The module gives special emphasis to the use of Computer Integrated Manufacturing in Manufacturing Systems. A comprehensive overview is given starting with interactions with the Global economy before considering the effects at company and factory level. It then considers the function of Manufacturing Systems within the factory and company level and how this is driven by the function of the machines on the shop floor. It therefore gives a holistic view of how manufacturing systems function at all levels and how the levels interact.

## ^ MANAGEMENT OF DESIGN (MNGT313)

### **Credits: 7.5 / Semester: semester 2**

To enable students to develop a general understanding of a wide range of aspects of the design function in a manufacturing company and its management, and in particular a comprehensive understanding of the design process.

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

## YEAR FOUR

In year four, you move on to study advanced engineering science and work on complex design engineering projects that reflect real-life in industry.

## COMPULSORY MODULES

### MECHANICAL ENGINEERING CAPSTONE 2 (MECH431)

#### Credits: 30 / Semester: semester 3

The 2-year Capstone Projects are a hallmark of the Mechanical Engineering MEng programmes at Liverpool. They are group projects in which students apply their scientific knowledge, design training and management skills to design-build-test innovative engineering products or systems. These projects provide students an opportunity to develop and evidence a wide range of technical, personal and professional skills. The Capstone modules make the greatest contribution to graduate employability.

Students are given the choice of project from a portfolio of 6-8 options: some target international sporting competition (eg Velocipede or Formula Student); others are industry-led and address real world challenges (eg Nuclear Rover decommissioning robot with NNL or Paediatric Wheelchairs with Alder Hey Hospital). The range of available projects varies each year.

Each project team is assigned an academic project supervisor and a dedicated member of technical staff. You will work closely with these staff and a range of other technical experts from industry and/or the research community. It should be noted that the students "own" their project and it is their responsibility to specify, plan, manage and report on all project work.

Students will be timetabled for 4-hours per week but will be expected to spend a significant amount of additional time working on their project.

A variety of assessment methods are used that are as close as possible to professional engineering practice.

At four key points in the year the Careers and Employability Service will join the module to help students reflect on, record in CV, and communicate at interview the professional development.

### PRODUCT DEVELOPMENT 4 (ENGG420)

#### Credits: 15 / Semester: semester 3

Following on from previous years, this module aims to further develop the student understanding of product development. In an open-ended studio setting, students will build on prior learning and further gain an understanding and appreciation of getting from an idea to a finished product. Successful students will be able to develop and articulate ideas in the form of sketchwork and traditional model prototypes to a fluent level. This will be assessed through project work.

### VIRTUAL REALITY (MNFG421)

#### Credits: 15 / Semester: semester 2

This module aims to develop student understanding of modern product visualisation and simulation techniques. In an open-ended 3D environment setting, students will gain an understanding and appreciation of visualising environments and products. Successful students will be able to develop and articulate product concepts in 3D virtual space at an advanced level. This will be assessed through project work.

### FINITE ELEMENT ANALYSIS (MECH452)

#### Credits: 7.5 / Semester: semester 1

In this module the students will gain a basic understanding of the Finite Element method and learn to use Abaqus Finite Element software. This software will then be used to analyse a variety of different problems which are relevant to both mechanical and civil engineers

### ADDITIVE MANUFACTURING (MNFG610)

#### Credits: 7.5 / Semester: semester 1

To provide an overview on the role of additive manufacturing in new product development.

To develop a generic understanding on the principles and the complete process chain of additive manufacturing processes.

To provide an awareness on recent developments in additive manufacturing and associated technologies.

## ^ DESIGN FOR ENVIRONMENT, MANUFACTURE AND ASSEMBLY (MNFG413)

### Credits: 7.5 / Semester: semester 1

The aim of this module is to provide an introduction to the tools and methods of Eco-design, Design for Manufacture and Assembly using real, everyday products as examples.

## ^ LASER MATERIALS PROCESSING (MECH605)

### Credits: 15 / Semester: semester 1

The module will cover: how lasers work, what are the key beam properties of high power lasers, how the beam is deployed and delivered to the process/workpiece, safety in laser materials processing, and the working principles and industry practice for a range of laser processes.

## ^ ENTERPRISE STUDIES (MNGT414)

### Credits: 7.5 / Semester: semester 1

The module teaches the concepts of Entrepreneurship, Intrapreneurship, Company Infrastructure and Investment Proposals. It is taught using lectures, class questions, case studies and a comprehensive coursework assignment. Successful students will have acquired knowledge and understanding at mastery level of the process and how it is executed in a modern industrial environment.

## ^ INDUSTRIAL ROBOTICS AND AUTOMATED ASSEMBLY (MNFG409)

### Credits: 15 / Semester: semester 1

This module investigates how industrial robots and other equipment are used and integrated into more complex automated systems. The module emphasis is upon the application and use of these systems, with less emphasis on the underlying theoretical mechanisms. The module is based in the concept of learning through doing, the underlying content being presented as videos, while the contact time is used in practical sessions using industrial robots and in the development of robotic systems using industrial simulation software. The assessments are designed to help reinforce understanding rather than short term memory. As an FHEQ level 7 module the tasks and assessments are designed to develop deeper knowledge and skill in application than that expected for those at FHEQ level 6.

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

## HOW YOU'LL LEARN

We are leading the UK's involvement in the international **Conceive-Design-Implement-Operate (CDIO)** (<http://cdio.org>) 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.



# Careers and employability

Our research-led teaching ensures that we incorporate the latest advances in cutting-edge engineering research and our graduates have found employment in a wide range of international industries and organisations.

Recent graduates have gone on to work for companies in the following industries:

Engineering and Infrastructure: ABB Ltd, Arup, Atkins, Balfour Beatty, Bentley, Corus, Halcrow, Laing O'Rourke, Mott Macdonald, Mouchel, Ramboll, Royal Haskoning, Siemens, Tarmac.

Aerospace and Aviation: Airbus, British Airways, Jaguar Land Rover, Rolls Royce.

Construction and Project Management: Costain, Metronet Rail.

Defence and Military: BAE Systems, British Army, RAF (Royal Air Force), Royal Navy.

Energy and Utilities: BMI, National Grid Transco, National Nuclear Laboratory, United Utilities.

Government organizations: Government organisations (not specifically listed), Highways Agency, Network Rail.

Glass and Materials: Pilkington.

Technology and Research: QinetiQ.

**4 IN 5** OF OUR ENGINEERING STUDENTS FIND THEIR MAIN ACTIVITY AFTER GRADUATION MEANINGFUL.

Graduate Outcomes, 2018-19.

# 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)		International fees	
Full-time place, per year	£9,250	Full-time place, per year	£27,200
Year in industry fee	£1,850	Year in industry fee	£1,850
Year abroad fee	£1,385	Year abroad fee	£13,600

Fees shown are for the academic year 2024/25. 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**(<http://www.liverpool.ac.uk/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 may include a laptop, books, or stationery. All safety equipment, other than boots, is provided free of charge by the department.


Find out more about the **additional study costs**(<http://www.liverpool.ac.uk/paying-for-your-studies/study-costs/?course=product-design-engineering-meng>) that may apply to this course.

## SCHOLARSHIPS AND BURSARIES

We offer a range of scholarships and bursaries that could help pay your tuition and living expenses.

We've set the country or region your qualifications are from as United Kingdom. **Change it here**([/international/countries/](#))


### RIGBY ENTERPRISE AWARD

 me students

Are you a UK student with a household income of £25,000 or less? If you've participated in an eligible outreach programme, you could be eligible to apply for a Rigby Enterprise Award worth £5,000 per year for three years of your undergraduate degree.

(<https://www.liverpool.ac.uk/study/fees-and-funding/scholarships-and-bursaries/undergraduate/rigby-enterprise-award/>)


### THE LIVERPOOL BURSARY

 me students

If you're a UK student joining an undergraduate degree and have a household income below £35,000, you could be eligible for a Liverpool Bursary worth up to £2,000 for each year of undergraduate study.

(<https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/liverpool-bursary/>)


### ASYLUM SEEKERS SCHOLARSHIP

 me students

Apply for an Asylum Seekers Scholarship and you could have your tuition fees paid in full and receive help with study costs. You'll need to have applied for asylum in the UK, or be the dependant of an asylum seeker, and be joining an eligible undergraduate degree.

(<https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/asylum-seekers-scholarship/>)


### CARE LEAVERS' OPPORTUNITY BURSARY

 me students

If you've spent 13 or more weeks in Local Authority care since age 14, you could be eligible for a bursary of £3,000 per year of study. You'll need to be a UK student joining an eligible undergraduate degree and be aged 28 or above on 1 September in the year you start.

(<https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/care-leavers-opportunity-bursary/>)


### COWRIE FOUNDATION SCHOLARSHIP

 me students

Are you a UK student with a Black African or Caribbean heritage and a household income of £25,000 or less? You could be eligible to apply for a Cowrie Foundation Scholarship worth up to £8,000 for each year of undergraduate study.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/cowrie-foundation-scholarship/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/cowrie-foundation-scholarship/)


### **ESTRANGED STUDENTS BURSARY**

 Home students

If you're a UK student identified as estranged by Student Finance England (or the equivalent UK funding body), you could be eligible for a bursary of £1,000 for each year of undergraduate study.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/estranged-students-bursary/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/estranged-students-bursary/)


### **GENESYS LIFE SCIENCES SCHOLARSHIP**

 Home students

Joining a School of Biosciences degree and have a household income of less than £25,000? If you're a UK student, you could apply to receive £4,500 per year for three years of your undergraduate course.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/genesys-life-sciences-scholarship/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/genesys-life-sciences-scholarship/)

### **GRADUATE ASSOCIATION HONG KONG & TUNG UNDERGRADUATE SCHOLARSHIPS**


 International students

 Hong Kong

If you're an undergraduate student from Hong Kong who can demonstrate academic excellence, you may be eligible to apply for a scholarship worth £10,000 in partnership with the Tung Foundation.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/hong-kong-awards/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/hong-kong-awards/)


### **NOLAN SCHOLARSHIPS**

 Home students

Do you live in the Liverpool City Region with a household income of £25,000 or less? Did neither of your parents attend University? You could be eligible to apply for a Nolan Scholarship worth £5,000 per year for three years of undergraduate study.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/nolan-scholarships/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/nolan-scholarships/)


### **ROLABOTIC SCHOLARSHIP**

 Home students

Are you a UK student with a household income of £25,000 or less? Did neither of your parents attend University? You could be eligible to apply for a ROLABOTIC Scholarship worth £4,500 for each year of your undergraduate degree.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/rolabotic-scholarship/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/rolabotic-scholarship/)


### **SPORT LIVERPOOL PERFORMANCE PROGRAMME**

 Home and international students

Apply to receive tailored training support to enhance your sporting performance. Our athlete support package includes a range of benefits, from bespoke strength and conditioning training to physiotherapy sessions and one-to-one nutritional advice.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/sport-liverpool-performance-programme/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/sport-liverpool-performance-programme/)

### **TECHNETIX BROADHURST ENGINEERING SCHOLARSHIP**

 Home students

Joining a degree in the School of Electrical Engineering, Electronics and Computer Science? If you're a UK student with household income below £25,000, you could be eligible to apply for £5,000 a year for three years of study. Two awards will be available per academic year.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/technetix-broadhurst-engineering-scholarship/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/technetix-broadhurst-engineering-scholarship/)

### **UNDERGRADUATE GLOBAL ADVANCEMENT SCHOLARSHIP**

 International students

If you're a high-achieving international student starting an undergraduate degree with us from September 2024, you could be eligible to receive a fee discount of up to £5,000. You'll need to achieve grades equivalent to AAA in A levels and be joining a non-clinical degree.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/global-advancement-scholarship/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/global-advancement-scholarship/)


### **UNIVERSITY OF LIVERPOOL INTERNATIONAL COLLEGE EXCELLENCE SCHOLARSHIP**

 International students

Completed a Foundation Certificate at University of Liverpool International College (UoLIC)? We're offering a £5,000 fee discount off the first year of undergraduate study to some of the highest achieving students joining one of our non-clinical degrees from UoLIC.

[\(https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/uolic-excellence-scholarship/\)](https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/uolic-excellence-scholarship/)


### **UNIVERSITY OF LIVERPOOL INTERNATIONAL COLLEGE FIRST CLASS SCHOLARSHIP**

 International students

We're offering a £1,000 fee discount for years 2 and 3 of undergraduate study to eligible students progressing from University of Liverpool International College. You'll need to be studying a non-clinical subject and get an average of 70% or above in year 1 of your degree.

**(<https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/uolic-first-class-scholarship/>)**


### **UNIVERSITY OF LIVERPOOL INTERNATIONAL COLLEGE IMPACT PROGRESSION SCHOLARSHIPS**

 International students

If you're a University of Liverpool International College student awarded a Kaplan Impact Scholarship, we'll also consider you for an Impact Progression Scholarship. If selected, you'll receive a £3,000 fee discount off the first year of your undergraduate degree.

**(<https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/uolic-impact-progression-scholarships/>)**

### **YOUNG ADULT CARER'S (YAC) BURSARY**

 Home students

If you're a young adult and a registered carer in the UK, you might be eligible for a £1,000 bursary for each year of study. You'll need to be aged 18-25 on 1 September in the year you start your undergraduate degree.

**(<https://www.liverpool.ac.uk/study/paying-for-your-studies/scholarships-and-bursaries/undergraduate/yac-bursary/>)**

# Entry requirements

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

Your qualification	Requirements About our typical entry requirements( <a href="https://www.liverpool.ac.uk/study/undergraduate/applying/entry-requirements-and-qualifications/">https://www.liverpool.ac.uk/study/undergraduate/applying/entry-requirements-and-qualifications/</a> )
A levels	<p>AAB including Mathematics and a second science.</p> <p>Applicants with the Extended Project Qualification (EPQ) are eligible for a reduction in grade requirements. For this course, the offer is <b>ABB</b> with <b>A</b> in the EPQ.</p> <p>You may automatically qualify for reduced entry requirements through our <b>contextual offers scheme</b>(<a href="https://www.liverpool.ac.uk/study/undergraduate/applying/contextual-data/">https://www.liverpool.ac.uk/study/undergraduate/applying/contextual-data/</a>).</p>
GCSE	4/C in English and 4/C in Mathematics
Subject requirements	<p>Mathematics and a second science.</p> <p>Applicants following the modular Mathematics A Level must be studying A Level Physics or Further Mathematics as the second science (or must be studying at least one Mechanics module in their Mathematics A Level).</p> <p>Accepted Science subjects are Biology, Chemistry, Computing, Economics, Electronics, Environmental Science, Further Mathematics, Geography, Geology, Human Biology, Physics, Statistics and Design &amp; Technology - Product Design.</p> <p>For applicants from England: For science A levels that include the separately graded practical endorsement, a "Pass" is required.</p>
BTEC Level 3 National Extended Certificate	Acceptable at grade Distinction alongside AB in A Level Mathematics and a second science.
BTEC Level 3 Diploma	D*D in relevant BTEC considered alongside A Level Mathematics grade A. Accepted BTECs include Aeronautical, Aerospace, Mechanical, Mechatronics and Engineering.
BTEC Level 3 National Extended Diploma	Not accepted without grade A in A Level Mathematics
International Baccalaureate	35 overall, including 5 at Higher Level Mathematics and Physics
Irish Leaving Certificate	H1,H1,H2,H2,H2,H3, including H2 in Higher Maths and Higher Second Science. We also require a minimum of H6 in Higher English or O3 in Ordinary English.
Scottish Higher/Advanced Higher	Pass Scottish Advanced Highers with grades AAB including Mathematics and a second science.
Welsh Baccalaureate Advanced	Acceptable at grade B alongside AA in A Level Mathematics and a second science.
Cambridge Pre-U Diploma	D3 in Cambridge Pre U Principal Subject is accepted as equivalent to A-Level grade A M2 in Cambridge Pre U Principal Subject is accepted as equivalent to A-Level grade B Global Perspectives and Short Courses are not accepted.
Access	Not accepted
International qualifications	<p>Many countries have a different education system to that of the UK, meaning your qualifications may not meet our entry requirements. Completing your Foundation Certificate, such as that offered by the <b>University of Liverpool International College</b>(<a href="https://www.kaplanpathways.com/colleges/university-of-liverpool-international-college/">https://www.kaplanpathways.com/colleges/university-of-liverpool-international-college/</a>), means you're guaranteed a place on your chosen course.</p>

## ALTERNATIVE ENTRY REQUIREMENTS

If your qualification isn't listed here, or you're taking a combination of qualifications, [contact us \(/study/undergraduate/contact-us/\)](#) for advice

**Applications from mature students (/study/undergraduate/applying/mature-students/)** are welcome.

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