

# Electrical and Electronic Engineering with a Year in Industry

BEng (Hons)

## COURSE DETAILS

- A level requirements: [ABB](#)
- UCAS code: H605
- Study mode: Full-time
- Length: 4 years

## KEY DATES

- Apply by: [29 January 2025](#)
- Starts: 22 September 2025

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## Course overview

Studying Electrical and Electronic Engineering allows you to specialise in subjects as diverse as power generation and transmission, and antennas and digital systems design, preparing you for an exciting career within the world of modern electronics.

## INTRODUCTION

Electrical engineering is not simply about the production and transmission of electrical energy, but also about how it is used. In both its transmission and usage there are significant and increasing challenges facing electrical engineers, many related to sustainability and the environment.

This programme is designed for students with an interest in communications engineering and associated electronics, covering a wide range of topics in electronic and communications engineering.

You will learn through the practical application of concepts and theory, always with awareness of their relevance to the real world.

This programme includes a placement year, during which you will spend time working in an engineering company. This is an excellent opportunity to gain practical engineering experience.

Electrical and Electronic Engineering students graduate with skills sought after by a wide range of employers who are actively seeking engineers.

## WHAT YOU'LL LEARN

- Practical problem-solving skills
  - Advanced skills in hardware and/or software design and implementation
  - Use of industry standard tools, technologies and working methods
  - How to take projects from conception through to design, implementation and operation
  - Solid training in both software and hardware information technology
  - How to put learning into practice through your Year in Industry
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## **ACCREDITATION**

Accredited by the Institution of Engineering and Technology (IET) on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.

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# Course content

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

## YEAR ONE

In your first year, module subjects covered range from digital electronics and electronics circuits, through to electromagnetism and electromechanics.

### COMPULSORY MODULES

#### **DIGITAL & INTEGRATED ELECTRONICS DESIGN (ELEC143)**

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

The module comprises of two parts Digital Electronics and Integrated Electronics. For the Digital part, students are provided with the knowledge of number systems, laws of Boolean algebra and introduced to the basic methods for designing combinational and sequential logic circuits. For the Integrated part, students are introduced to various silicon electronic devices and provided with the opportunity to understand the basic principles of silicon microelectronics designs processes including designing layouts for simple circuit.

#### **ELECTRICAL CIRCUITS & SYSTEMS (ELEC142)**

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

Fundamental course on circuit analysis techniques.

#### **ELECTROMAGNETISM & ELECTROMECHANICS (ELEC120)**

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

This module includes two parts. The first part of this module covers electrostatics, current and permanent electromagnetism. The second part of the module covers electromechanics, including the principles and construction of DC and AC machines, transformers and linear actuators.

#### **ELECTRONIC CIRCUITS (ELEC104)**

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

This module aims to introduce students to fundamental electronic devices (diodes and transistors), and how these devices are used in amplifier and switching circuits. The module is assessed via two laboratory sessions (20%) and one final exam (80%)

## **ENGINEERING SKILLS (ELEC171)**

**Credits: 15 / Semester: whole session**

Introductory module that teaches practical skills for electrical engineering students, focusing on basic laboratory skills. The practical skills are linked with theory presented in other Year 1 modules including those on analogue and digital electronics, and electromagnetics. The module includes an introduction to a technical programming language (MATLAB) and an introduction to the ethical and sustainability issues that face modern engineers.

## **INTRODUCTION TO PROGRAMMING IN C (ELEC129)**

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

This module is an introductory course to the C computer programming language. The module provides a comprehensive overview of the fundamentals of C programming (variables, data types, operators, pointers, arrays, strings, structures, functions, input/output operations and flow control) and the software development method (specification, analysis, design, implementation/coding and testing).

## **MATHEMATICS A FOR ELECTRICAL ENGINEERS (ELEC191)**

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

Mathematics for students registered in the Department of Electrical Engineering and Electronics, to support their technical modules.

## **MATHEMATICS B FOR ELECTRICAL ENGINEERS (ELEC192)**

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

Basic mathematics for students registered in the Department of Electrical Engineering and Electronics, concentrating on those groups of students who have, on the average, weaker preparation for University level Maths such as entrants with the BTEC qualification (but not limited to that group). Exam practice is another important component of this module. This module follows on from ELEC191

*Any optional modules listed above are illustrative only and may vary from year to year. Modules may be subject to minimum student numbers being achieved and staff availability. This means that the availability of specific optional modules cannot be guaranteed.*

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## **YEAR TWO**

In your second year, a range of module subjects similar to those in your first year is covered.

## **COMPULSORY MODULES**

### **CMOS INTEGRATED CIRCUITS (ELEC212)**

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

An important feature of this module is the extent to which it combines design activity with very relevant industrial concepts and a deeper understanding of device physical principles and electromagnetism. Over a period of time an approach to the integration of such contrasting concepts has been developed and it is universally regarded by the students as being both stimulating and demanding. It aims to provide the background for later modules, relevant final year projects, but particularly for employment in those industries that are firmly based in microelectronics technology. It develops the concept of design as being more than simple problem solving, but something demanding high levels of innovation still based on sound physical principles. In this respect it builds on earlier work in Engineering Electromagnetism and Integrated Electronics and Design. They are not, however, essential for students to undertake this module. The module is assessed through Design Assignment (25%) and formal examination (75%).

### **COMMUNICATION SYSTEMS (ELEC202)**

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

This module will teach fundamental knowledge on communication systems.

### **DIGITAL ELECTRONICS & MICROPROCESSOR SYSTEMS (ELEC211)**

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

This module covers two areas. In digital electronics, it covers topics which build on the basic knowledge gained in the first year digital electronics programme and learning some hardware description language (HDL) programming. In microprocessor systems, it introduces the topic from the basics describing how a microprocessor works and learning some assembly language programming.

### **ELECTRICAL CIRCUITS & POWER SYSTEMS (ELEC209)**

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

This module is aimed at equipping students with tools to analyse inter-related electrical circuits and systems and to provide students with an introduction to the components and composition of an electric power system. It also covers the different primary energy sources and the way in which power is delivered to the customers. Teaching and learning are provided through variety of means like formal lectures, problem sheets, supplementary question sheets, worked example sheets along with formative and summative online tests (through CANVAS, the electronic VLE system). Assessment is carried out by means of coursework and final (written) exam.

## **ELECTROMAGNETICS (ELEC210)**

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

The objective of this module is to further enhance the students knowledge of electric field/magnetics field and use of Maxwells equations and their use in practical EM applications.

## **INSTRUMENTATION & CONTROL (ELEC207)**

**Credits: 15 / Semester: whole session**

This module covers the design and operation of instrumentation devices as well as the design of continuous time control systems.

## **FIELD THEORY AND PARTIAL DIFFERENTIAL EQUATIONS (MATH283)**

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

(This module is for those EEE students who have not studied at XJTLU).

Maxwell's equations elegantly describe the physical laws governing such things as electrodynamics. Related problems may be posed in terms of vector calculus, or in terms of differential equations. In this module, we revise vector calculus and field theory in three dimensions, using Stokes' theorem and Gauss' theorem to solve explicit physical problems; we evaluate path, surface and volume integrals, and derive general electrodynamic laws. We also consider both the ordinary and partial differential equations arising from real world problems related to Maxwell's equations, and solve them using Fourier series methods.

## **SIGNALS AND SYSTEMS (ELEC270)**

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

Introduces continuous and discrete signal operations and analysis, the frequency domain and spectral analysis, including Fourier Series and Fourier, Laplace and z Transforms. Introduces system quantification and analysis, including pole-zero plots, feedback, basic stability criteria and block diagrams.

## **APPLIED DESIGN & INDUSTRIAL AWARENESS (ELEC273)**

**Credits: 15 / Semester: whole session**

The aim of this module is to provide students with practical work which underpins, confirms and gives application focus for academic study, while testing a wide range of skills.

## **AMPLIFIER CIRCUITS - DESIGN AND APPLICATIONS (ELEC219)**

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

The module introduces basic concepts of the electronic circuits incorporating amplifiers required for instrumentation and communication. It deals with a wide range of amplifiers and the problems that might be encountered in a actual application. It also deals with circuitry needed in communication for example oscillators and phase-locked-loops.

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## **YEAR THREE**

This is the placement year, during which you will spend time working in an engineering company.

Preparation for the placement is provided by the University's Careers and Employability Service, who will assist in finding a placement, creating a CV and preparing you for interview. Placements can be near or far in the UK, Europe and China.

## **COMPULSORY MODULES**

### **UG PLACEMENT IN YEAR3 (ELEC299)**

**Credits: 120 / Semester: whole session**

This module is for the students in the year in industry.

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## **YEAR FOUR**

In your final year, you will undertake a major individual project that is either linked to research work or has some industrial relevance.

Other modules are studied which reflect your personal interest, providing an opportunity either to focus on your preferred specialisation, or keep your options open with a broad range of subjects.

In addition to compulsory modules, you choose two from the indicative list of optional modules.

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## **COMPULSORY MODULES**

### **ENGINEERING MANAGEMENT & ENTREPRENEURIAL SKILLS (ELEC352)**

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

This module covers project management for year 3 students registered in the Department of Electrical Engineering and Electronics. Entrepreneurial skills are also be covered.

## **BENG PROJECT (ELEC340)**

**Credits: 30 / Semester: whole session**

Students undertake an extended individual project. Projects are specified by academic staff and cover the whole range of Electrical and Electronic Engineering including hardware (both analogue and digital), software and simulation or a mixture of these. Students can also suggest their own projects which need to be approved by an academic supervisor. Students work closely with their academic supervisor to realize their project aims and assessment is split between a preliminary report, an oral presentation, the bench inspection and the final report.

## **OPTIONAL MODULES**

### **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.

### **ANTENNAS (ELEC312)**

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

This module is to introduce antenna theory and applications.

Students will learn the fundamentals of the antenna theory and design, and understand the most important antennas.

### **APPLICATION DEVELOPMENT WITH C++ (ELEC362)**

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

This course will help student to understand the object-oriented design concept and to gain knowledge and practical skills of C++ as an advanced programming language.

On successful completion of the module, students should be able to understand/design/develop C++ applications (both console and GUI-based) with a specific emphasis on developing GUI-based applications.

### **DIGITAL AND WIRELESS COMMUNICATIONS (ELEC377)**

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

This module provides an extensive coverage of the theory and practice of digital and wireless communication systems, to allow the students to be able to design and develop digital and wireless communication systems, with an awareness of all the main factors involved and of existing and emerging technologies.



## **DIGITAL CONTROL AND OPTIMISATION (ELEC303)**

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

A broad range of topics are covered. Case studies and example tutorials emphasise the practical aspects of digital control design and optimisation.

## **DIGITAL SYSTEM DESIGN (ELEC373)**

**Credits: 15 / Semester: whole session**

This module introduces students to the digital design techniques used in industry and research. The methods for describing digital systems using the Verilog Hardware Description Language (HDL) are introduced. Student will examine the operation of the MIPS Processor and will also be introduced to Altera's NIOS-II Processor. The module is assessed via 4 assignments and two class tests. Altera's Quartus package is used for synthesising the digital systems.

## **DRIVES (ELEC331)**

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

This module introduces students to a range of electrical machines (AC & DC) using the concepts of rotating magnetic fields and co-energy. This allow students to model their behaviour and select the most appropriate electrical machine for their application.

## **ELECTROMAGNETIC COMPATIBILITY (ELEC382)**

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

This module is aimed at developing an in-depth understanding of EMC, the scope of EMC, standards, typical EMC problems and solutions.

Based on the theory, the students are expected to be able to analyse and solve EMC problems, and also use relevant equipment for conducting EMC measurements.

## **LOW POWER COMPUTER ARCHITECTURE (ELEC370)**

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

In this module students gain an understanding of the architecture and operation of embedded computer systems and their components. Furthermore, they gain an understanding of how computer performance is dependent upon the design of computer architectures and sub-circuits.

## **IMAGE PROCESSING (ELEC319)**

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

This module covers the fundamentals of how images are generated, represented, compressed and processed to extract features of interest.

## **NEURAL NETWORKS (ELEC320)**

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

Introduction to neural network theory, applications and artificial intelligence.

## **PHOTONICS AND OPTICAL INFORMATION SYSTEMS (ELEC313)**

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

The aims of this module are: To introduce students to the fundamental principles of opto/electronic systems for the transfer of information. To introduce the duality of light as both wave and ray. To show intensity and phase related optical principles. To demonstrate optical information transfer through a number of applications.

## **RF ENGINEERING AND APPLIED ELECTROMAGNETICS (ELEC311)**

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

This module will introduce students to the fundamental concepts of high frequency electromagnetics, and circuit design techniques that must be considered in the design of high frequency circuits and systems.

Students will learn in-depth knowledge of transmission lines, the Smith Chart, standing waves and scattering parameters etc.

After this module, students will be able to appreciate the microwave and RF circuit design for contemporary communication systems.

## **SIGNAL PROCESSING AND DIGITAL FILTERING (ELEC309)**

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

This module is aimed at developing the basic framework for signal processing and to demonstrate its applications. Also, the module provides students with a good understanding of the types, behaviours and design of FIR and IIR digital filters.

Teaching and learning are provided through a variety of means like formal lectures, problem sheets, supplementary questions, along with formative and summative online tests (through CANVAS, the electronic VLE system).

Assessment is carried out by means of two assignments and final (written) exam.

## **POWER SYSTEMS AND POWER ELECTRONICS (ELEC301)**

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

A core module of electrical engineering for delivering fundamental principles of power systems: including electricity generation, transmission and distribution, and power electronics for conversion of electricity with different frequency and magnitude.

## **PLASMA SYSTEM ENGINEERING (ELEC391)**

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

The module introduces to the students the basic concepts of electrical plasmas and how they are used in industry. It concentrates on the engineering principles behind plasma technology rather than the physics of the discharge, however some mathematical approaches are explored so that quantification of the action of plasmas upon material surfaces can be made. The module explains how a gas can turn into a plasma and how high energy ions in the plasma can be generated to process a substrate, such as silicon wafer in micro-electronics fabrication. The module is taught by a mixture of power points notes and chalk and talk. There are a number of question sheets given out to help the students understand the basis plasma-material processes. On completion, students will understand how plasmas are used in industry, they will have an appreciation of some aspects of simple design and how plasmas can be configured for the next generation of fusion power stations.

## **INTEGRATED CIRCUITS - CONCEPTS AND DESIGN (ELEC372)**

**Credits: 15 / Semester: whole session**

To understand the reasons for the predominance and importance of silicon-based microelectronics to the semiconductor industry.

To understand how materials, devices and circuit issues are inter-related and exploited to make the microchips that underpin the information age.

To gain experience in using a simulation tool (Multisim) in the design, simulation and analysis of digital and analogue circuit designs.

To prepare students for entering the Silicon semiconductor industry.

## **TRANSISTOR AMPLIFIERS AND DIFFERENTIAL CIRCUITS: THEORY AND DESIGN (ELEC371)**

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

The module concerns the understanding of how electronic amplifier circuits work and some basic ideas on how to design them. This requires an appreciation of linear small-signal equivalent circuits based on device physics and how to use them to assist the design process. Students will also learn how to break down complex circuits into simpler building blocks and how these blocks in turn, represented by linear equivalent circuits, can be combined to achieve the desired functionality. How negative feedback can be applied to produce high performance, stable circuits with high tolerance. The current state of the art is emphasised together with a historical perspective, noting some of the pioneers in the field.

*Any optional modules listed above are illustrative only and may vary from year to year. Modules may be subject to minimum student numbers being achieved and staff availability. This means that the availability of specific optional modules cannot be guaranteed.*

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## **HOW YOU'LL LEARN**

All programmes are taught over two semesters with examinations at the end of each semester. Modules vary from those which are assessed by examination only to others which are continuous assessment only. All programmes incorporate a substantial practical

component, with an increasing emphasis on project work as you progress through to the final year. You can select your final year individual project in consultation with members of staff.

## **HOW YOU'RE ASSESSED**

Assessment for this course is undertaken through a range of exams, coursework and projects.

## **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.

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# Careers and employability

Graduates of this degree programme go on to a wide range of careers: you may be responsible for planning the electricity distribution network, or you may be designing the electronics of the next 'must have' item. It is an exciting time for the electronic and communications industry, with new and innovative products coming out every day.

Recent employers include:

- ARM Holdings Ltd
- British Nuclear Group
- Daresbury Laboratory
- Deva Electronic Controls
- Energetix Group PLC
- Ericsson Ltd
- Heap and Partners Ltd
- Logica CMG
- Marconi
- Ministry of Defence
- Royal Liverpool University Hospital (Clinical Engineering)
- Science and Technology Facilities Council
- Scottish Power
- Siemens UK
- The Highways Agency
- United Utilities PLC.

**100%** OF ELECTRICAL ENGINEERING AND ELECTRONICS STUDENTS ARE IN WORK AND/OR FURTHER STUDY 15 MONTHS AFTER GRADUATION.

*Discover Uni, 2018-19.*

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# Fees and funding

Your tuition fees, how to pay, and other costs to consider

## TUITION FEES

<b>UK fees (applies to Channel Islands, Isle of Man and Republic of Ireland)</b>	
Full-time place, per year	£9,535
Year in industry fee	£1,850

<b>International fees</b>	
Full-time place, per year	£29,100
Year in industry fee	£1,850

*The UK full-time tuition fee and international course fee shown are correct for 2025/26 entry. We are currently awaiting confirmation of whether the year in industry fees will change, so the fees shown are for 2024/25.*

Tuition fees cover the cost of your teaching, assessment, operating University facilities such as libraries, IT equipment, and access to academic and personal support.

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## 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](#) that may apply to this course.

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## 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](#)

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## **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. Most of our undergraduate degrees are eligible, with the exception of clinical programmes in Medicine and Dental Surgery.](#)

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## **THE LIVERPOOL BURSARY**

### ◦ [Home 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.](#)

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## **ASYLUM SEEKERS SCHOLARSHIP**

### ◦ [Home 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.](#)

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## **CARE LEAVERS' OPPORTUNITY BURSARY**

### ◦ [Home 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.](#)

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## **COWRIE FOUNDATION SCHOLARSHIP**

### ◦ [Home 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.](#)

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## **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.](#)

- **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.

- **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.

- **KAPLAN DIGITAL PATHWAYS EXCELLENCE SCHOLARSHIP**

- International students

Completed a Kaplan Digital Pathways Foundation Certificate? We're offering a £5,000 fee discount off the first year of undergraduate study for a maximum of two high achieving students joining one of our non-clinical degrees from an online Kaplan Foundation Certificate.

- **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.

- **RIGBY ENTERPRISE AWARD**

- Home 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.

- **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.



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## **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.](#)

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## **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.](#)

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## **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.](#)

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## **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.](#)

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## **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.](#)

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## **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.](#)

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# Entry requirements

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

Your qualification	<b>Requirements</b> <a href="#">About our typical entry requirements</a>
A levels	ABB You may automatically qualify for reduced entry requirements through our <a href="#">contextual offers scheme</a> . If you don't meet the entry requirements, you may be able to complete a foundation year which would allow you to progress to this course. Available foundation years: <ul style="list-style-type: none"><li>• <a href="#">Engineering Foundation (4 year route including a Foundation Year at Carmel College)</a> BEng (Hons)</li></ul>
GCSE	4/C in English and 4/C in Mathematics
Subject requirements	For applicants from England: For science A Levels that include the separately graded practical endorsement, a Pass is required.
BTEC Level 3 National Extended Certificate	Distinction in BTEC (any subject) plus AB in A Levels. A Levels must include Mathematics and a science subject (Chemistry, Computer Science, Further Mathematics, Physics or Electronics).
BTEC Level 3 Diploma	D*D in a relevant BTEC considered alongside grade B in A Level Mathematics.
BTEC Level 3 National Extended Diploma	D*D*D in a relevant Diploma, including Distinction in 'Further Mathematics for Engineering Technicians' unit. Students will also be required to take an online Mathematics assessment, please contact the University for further information.

<b>Your qualification</b>	<b>Requirements</b> <a href="#">About our typical entry requirements</a>
International Baccalaureate	33 overall, including 5 in Higher Level Mathematics and 5 in a Higher Level science subject.
Irish Leaving Certificate	H1, H2, H2, H2, H3, H3 including H2 or above in Mathematics and a science subject (Chemistry, Computer Science, Further Mathematics, Physics or Electronics).
Scottish Higher/Advanced Higher	ABB in Advanced Highers including Mathematics and a science subject (Chemistry, Computer Science, Further Mathematics, Physics or Electronics).
Welsh Baccalaureate Advanced	Accepted at grade B alongside A Level grades AB in Mathematics and a science subject (Chemistry, Computer Science, Further Mathematics, Physics or Electronics).
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	Considered if taking a relevant subject. 42 Level 3 credits at Distinction, including 15 Level 3 credits in Mathematics is required. GCSE English and Mathematics grade C/4 or above also required. Students will be required to take an online Mathematics assessment, please contact the University for further information.
International qualifications	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 <a href="#">University of Liverpool International College</a> , can guarantee you a place on a number of similar courses which may interest you.

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## 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.

**THE ORIGINAL**

**REDBRICK**