

# Product Design Engineering with Year in Industry BEng (Hons)

#### **COURSE DETAILS**

A level requirements: <u>ABB</u>

• UCAS code: HW26

• Study mode: Full-time

• Length: 4 years

#### **KEY DATES**

Apply by: 29 January 2025

• Starts: 22 September 2025

### **Course overview**

This programme brings together the disciplines of design engineering and new product development allowing you the opportunity to apply academic knowledge and professional skills in real-life engineering practice.

#### 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.

Then, you'll 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.

#### WHAT YOU'LL LEARN

- Disciplines of 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

### **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 topixc.

#### 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

#### **DIGITAL ENGINEERING (ENGG125)**

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

Students completing the module should be able to understand simple computer programs and write their own simple MATLAB programs to solve problems and process data as required by other modules and in engineering practice.

Students completing the module will be able to understand simple electrical circuits with passive and active components, mechanical (mass-spring-damper) systems and electromechanical systems (DC machines). They will learn basic mathematical, practical and computational methods for analysing and modelling these.

#### **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.

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

#### **SCHOOL OF ENGINEERING YEAR IN INDUSTRY (ENGG299)**

#### Credits: 120 / Semester: semester 2

This module is associated with the placement year of the 'year in industry' programme. On accepting an approved offer, students spend a minimum of 40 weeks employed in a company/organisation. Placements will be approved and arranged at places accessible to the individual student. An academic mentor will be assigned to monitor and assess the student's progress during placement. This will involve at least one site visit and follow-up telephone call as well as checking that the student's placement log is being kept up to date. The placement year should be a mutually beneficial experience for both student and employer. Students will be given opportunities and gain confidence to apply theories and technical skills learned in Years 1 and 2 of their studies in a real-time work environment. Ideally (depending on the placement), these activities will be engineering/industry relevant and project (team) based extending over several months and will therefore provide opportunities to develop the student's transferable skills and professional competence leading to enhanced employability.

#### **ENGINEERING MATHEMATICS II (CIVE299)**

#### 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.

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

#### YEAR IN INDUSTRY

You will spend a year of your degree on a work placement, approved by the School of Engineering, normally in an engineering or design-relevant industry or role. The Product Design Engineering with a Year in Industry BEng (Hons) programme is available to all students\*. While the School of Engineering and the University will provide the necessary support and guidance, it is the responsibility of the student to secure an industrial placement. Applicants should note that industrial placements are highly sought after and competition to be accepted into one can be significant. They therefore cannot be guaranteed. Students who fail to secure a suitable placement offer will transfer back to the standard version of the programme without a year in industry.

\*Overseas students are applicable, though <u>restrictions may apply</u>.

#### **COMPULSORY MODULES**

#### SCHOOL OF ENGINEERING YEAR IN INDUSTRY (ENGG299)

Credits: 120 / Semester: semester 2

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

#### **YEAR FOUR**

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

#### **COMPULSORY MODULES**

#### **PRODUCT DESIGN GROUP PROJECT (ENGG340)**

Credits: 15 / Semester: semester 3

This module aims to draw together all the knowledge, understanding and skills acquired on the undergraduate industrial design programme into a single 'capstone' project. Working in groups, students will conceptualise, design and develop a product to the point of initial prototype. This will be assessed through group 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 modules 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.

#### **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.

#### **INDIVIDUAL PROJECT (ENGG341)**

#### Credits: 30 / Semester: semester 2

The Year 3 individual research project; 300 hours student work over 2 semesters; 3 assessment stages (proposal 5%, interim 20%, final 75%).

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 <u>Conceive-Design-Implement-Operate (CDIO)</u> 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)	
Full-time place, per year	£9,250
Year in industry fee	£1,850
Year abroad fee	£1,385

International fees	
Full-time place, per year	£27,200
Year in industry fee	£1,850
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. <u>Learn more about paying for your studies</u>.

#### **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 <u>additional study costs</u> 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. <u>Change it</u> here

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#### **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.

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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

<u>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.</u>

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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.

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#### **GENESYS LIFE SCIENCES SCHOLARSHIP**

Home students

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

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## 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.

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#### **NOLAN SCHOLARSHIPS**

Home students

<u>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.</u>

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#### **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

<u>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.</u>

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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.

**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.

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.

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.

UNIVERSITY OF LIVERPOOL INTERNATIONAL COLLEGE IMPACT PROGRESSION SCHOLARSHIPS

o <u>International students</u>

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.

**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.

## **Entry requirements**

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

Your qualification	Requirements  About our typical entry requirements
A levels	ABB including Mathematics and a second science.  Applicants with the Extended Project Qualification (EPQ) are eligible for a reduction in grade requirements. For this course, the offer is <b>BBB</b> with <b>A</b> in the EPQ.  You may automatically qualify for reduced entry
	requirements through our contextual offers scheme.  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:     Engineering Foundation (4 year route including a Foundation Year at Carmel College). BEng (Hons)
GCSE	4/C in English and 4/C in Mathematics
Subject requirements	Mathematics and a second science.  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).  Accepted Science subjects are Biology, Chemistry, Computing, Economics, Electronics, Environmental Science, Further Mathematics, Geography, Geology, Human Biology, Physics and Statistics.
	For applicants from England: For science A levels that include the separately graded practical endorsement, a "Pass" is required.
BTEC Level 3 National Extended	Acceptable at grade Distinction (any subject) alongside BB at A level including Mathematics and either Physics or Further

Your qualification	Requirements  About our typical entry requirements
Certificate	Maths.
BTEC Level 3 Diploma	Acceptable at grade Distinction alongside BB in A Level Mathematics and a second science.
BTEC Level 3 National Extended Diploma	Not accepted without grade B in A Level Mathematics
International Baccalaureate	33 overall, including 5 at Higher Level Mathematics and Physics
Irish Leaving Certificate	H1, H2, H2, H3, H3, including H2 in Higher Mathematics 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 ABB including Mathematics and a second science.
Welsh Baccalaureate Advanced	Acceptable at grade B alongside AB in A Level Mathematics and a second science.
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.
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 University of Liverpool

Your qualification	Requirements About our typical entry requirements
	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, <u>contact us</u> for advice
- <u>Applications from mature students</u> are welcome.

## THE ORIGINAL

**REDBRICK** 

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