Product Design Engineering with a Year in Industry  MEng

COURSE DETAILS
- A level requirements: AAB
- UCAS code: HW27
- Study mode: Full-time
- Length: 5 years

KEY DATES
- Apply by: 25 January 2023
- Starts: 25 September 2023

Course overview
This programme brings together the traditional discipline of design engineering and new product development with real-world experience. 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.
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
- Real-world experience working in the industry
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

THERMODYNAMICS I (ENGG112)
Credits: 7.5 / Semester: semester 2
The module provides an introduction to the laws of thermodynamics which are essential to understanding many branches of engineering. The module will be taught through reference to everyday examples and applications drawn from aerospace, civil and mechanical engineering.

FLUID MECHANICS (ENGG113)
Credits: 7.5 / Semester: semester 1
This module introduces fluid mechanics to the First Year Undergraduate students, describes the fundamental principles of fluid property, dimension analysis, hydrostatics and hydrodynamics. Students will be able to solve simple engineering problems involves steady fluid flow.

SOLIDS AND STRUCTURES 1 (ENGG110)
Credits: 15 / Semester: whole session
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.

ENGINEERING MATHEMATICS (MATH198)
Credits: 22.5 / Semester: whole session
MATH198 is a Year 1 mathematics module for students of programmes taught in the School of Engineering, e.g. Aerospace, Civil, Mechanical or Industrial Design Engineering. It is designed to reinforce and build upon A-level mathematics, providing you with the strong background required in your engineering studies and preparing you for the Year 2 mathematics module MATH299 (Mathematics engineering II). In the first semester, the foundations are laid: differential calculus, vector algebra, integration and applications. Semester two covers complex numbers, differential equations, Laplace transformations and functions of two variables.

**INTRODUCTION TO STRUCTURAL MATERIALS (ENGG108)**

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

This module introduces students to important mechanical properties of metallic alloys, polymers, ceramics, construction materials and composites used in engineering industry. It also introduces the mechanical testing techniques used to measure such properties, the common mechanisms of materials and component failure in use, and some appreciation of materials processing. The laboratory sessions are designed to familiarise students with engineering laboratory methods and procedures, as well as providing an experience of hands-on mechanical testing techniques.

**ELECTRICAL CIRCUITS FOR ENGINEERS (ELEC121)**

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

To provide students with a basic understanding of electronics from first principles covering analogue and electromechanical systems. Basic circuits and theory will be introduced including the use of semiconductor devices such as diodes and transistors. Electromechanics will be developed to provide the student with a fundamental knowledge of the principles of DC and AC machines, transformers and linear actuators.

**ELECTROMECHANICAL SYSTEMS (ENGG121)**

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

To provide students with a basic understanding of modelling and simulation techniques. Mathematical modelling and graph theory will be introduced to develop practical skills in the modelling and designing of different types of systems including electromechanical systems.

**INTRODUCTION TO STATISTICS AND PROGRAMMING FOR ENGINEERS (ENGG185)**

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

This module introduces students to the basic concepts and principles of elementary statistics and programming. It explains the purposes and advantages of analysing data collected specifically to solve problems in engineering, reviews available software tools and programming languages used to formulate and answer basic engineering questions. It draws on examples from applications across the range of School of Engineering program areas.
MECHANICAL ENGINEERING DESIGN A (MECH113)

Credits: 15 / Semester: semester 1

This module provides students with an introduction to mechanical design and the skills required by a professional engineer.

The module is configured around a group design project but is enhanced with lecture material and practical exercises to introduce skills such as technical drawing, data analysis and technical writing.

The majority of these are brought together through their application to the design project that runs alongside them.

PRODUCT DEVELOPMENT 1 (ENGG114)

Credits: 15 / Semester: semester 2

This module provides students with a hands-on introduction to industrial design and new product development, and the skills required by a technical product designer. The module is configured around an industrial design studio-based project but is enhanced with lecture material and practical exercises to introduce skills such as report writing, oral presentation, computer-aided design, analysis of engineering mechanisms and components, and physical sketch modelling of design ideas. The majority of these are brought together through their application to the design project that runs alongside them.

DESIGN COMMUNICATION (ENGG115)

Credits: 7.5 / Semester: semester 2

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.

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)
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 2**

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: whole session**
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: whole session

Steam, standard air and refrigeration cycles

**SOLIDS & STRUCTURES 2 (ENGG209)**

Credits: 15 / Semester: whole session

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 2

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 2

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 in 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: whole session

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.

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
Overseas students are applicable, though restrictions may apply. 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

INDIVIDUAL DESIGN PROJECT (INDD341)

Credits: 30 / Semester: whole session

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: whole session

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 (e.g., Velocipede or Formula Student); others are industry-led and address real-world challenges (e.g., 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: whole session

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

MATERIALS DESIGN (MATS303)

Credits: 7.5 / Semester: semester 2

HEAT TRANSFER (MECH301)
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.

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

YEAR FIVE

COMPULSORY MODULES
MECHANICAL ENGINEERING CAPSTONE 2 (MECH431)
Credits: 30 / Semester: whole session
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 (e.g. Velocipede or Formula Student); others are industry-led and address real world challenges (e.g. 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:** whole session

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

**DESIGN FOR ENVIRONMENT, MANUFACTURE AND ASSEMBLY (MNFG413)**
Credits: 7.5 / Semester: semester 2

**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 2
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.

**INTEGRATED SYSTEMS DESIGN (MNFG615)**
Credits: 15 / Semester: semester 2

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) 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 developed as part of the life-cycle processes involved in engineering and an awareness of the sustainability issue involved in practicing as a professional engineer.
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 degrees provide pathways into rewarding careers and our graduates have found employment in a wide range of international industries and organisations. As well as achieving a degree qualification, you will graduate as an industry-ready engineer who has both practical experience and highly desirable skills in the engineering industry.

The Careers and Employability service maximises opportunities for career prospects, graduate opportunities, student summer placements and the annual engineering career fair with 30 blue-chip companies attending including Jaguar Land Rover, Nestle, Toyota, JCB and the British Army.

Our research-led teaching ensures that we incorporate the latest advances in cutting-edge engineering research. 95% of our research is deemed world-leading or internationally excellent and is highly regarded by engineering industries and partners.

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

Graduate Outcomes, 2018-19.

RECENT EMPLOYERS
- ABB Ltd
- Airbus
- Arup
- Atkins
- BAE Systems
- Balfour Beatty
- Bentley
- BMI
- British Airways
- British Army
- Corus
- Costain
- Government organisations
- Halcrow
- Highways Agency
- Jaguar Land Rover
- Laing O’Rourke
- Metronet Rail
- Mott MacDonald
- Mouchel
PREPARING YOU FOR FUTURE SUCCESS

At Liverpool, our goal is to support you to build your intellectual, social, and cultural capital so that you graduate as a socially-conscious global citizen who is prepared for future success. We achieve this by:

- Embedding employability within your curriculum, through the modules you take and the opportunities to gain real-world experience offered by many of our courses.
- Providing you with opportunities to gain experience and develop connections with people and organisations, including student and graduate employers as well as our global alumni.
- Providing you with the latest tools and skills to thrive in a competitive world, including access to Handshake, a platform which allows you to create your personalised job shortlist and apply with ease.
- Supporting you through our peer-to-peer led Careers Studio, where our career coaches provide you with tailored advice and support.
Fees and funding
Your tuition fees, funding your studies, and other costs to consider.

TUITION FEES
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 tuition fees, funding and student finance.

<table>
<thead>
<tr>
<th>UK fees</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time place, per year</td>
<td>£9,250</td>
</tr>
<tr>
<td>Year in industry fee</td>
<td>£1,850</td>
</tr>
<tr>
<td>Year abroad fee</td>
<td>£1,385</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>International fees</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time place, per year</td>
<td>£24,500</td>
</tr>
</tbody>
</table>

Fees stated are for the 2022-23 academic year and may rise for 2023-24.

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.

SCHOLARSHIPS AND BURSARIES
We offer a range of scholarships and bursaries to help cover tuition fees and help with living expenses while at university.
Scholarships and bursaries you can apply for from the United Kingdom
Select your country or region for more scholarships and bursaries.
## Entry requirements

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

<table>
<thead>
<tr>
<th>Your qualification</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A levels</strong></td>
<td>AAB 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 <strong>ABB</strong> with <strong>A</strong> in the EPQ. You may automatically qualify for reduced entry requirements through our <a href="#">contextual offers scheme</a>.</td>
</tr>
<tr>
<td><strong>GCSE</strong></td>
<td>4/C in English and 4/C in Mathematics</td>
</tr>
<tr>
<td><strong>Subject requirements</strong></td>
<td>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: Where a science has been taken at A Level (Chemistry, Biology or Physics), a pass in the Science practical of each subject will be required.</td>
</tr>
<tr>
<td><strong>BTEC Level 3 Subsidiary Diploma</strong></td>
<td>Acceptable at grade Distinction alongside AB in A Level Mathematics and a second science.</td>
</tr>
<tr>
<td><strong>BTEC Level 3 Diploma</strong></td>
<td>D*D in relevant BTEC considered alongside A Level Mathematics grade A. Accepted BTECs include Aeronautical, Aerospace, Mechanical, Mechatronics and Engineering.</td>
</tr>
<tr>
<td>Your qualification</td>
<td>Requirements</td>
</tr>
<tr>
<td>---------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BTEC Level 3 National Extended Diploma</td>
<td>Not accepted without grade A in A Level Mathematics</td>
</tr>
<tr>
<td>International Baccalaureate</td>
<td>35 overall, including 5 at Higher Level Mathematics and Physics</td>
</tr>
<tr>
<td>Irish Leaving Certificate</td>
<td>H1,H1,H2,H2,H2,H3, including H2 in Higher Maths and Higher Second Science.</td>
</tr>
<tr>
<td>Scottish Higher/Advanced Higher</td>
<td>Pass Scottish Advanced Highers with grades AAB including Mathematics and a second science.</td>
</tr>
<tr>
<td>Welsh Baccalaureate Advanced</td>
<td>Acceptable at grade B alongside AA in A Level Mathematics and a second science.</td>
</tr>
<tr>
<td>Cambridge Pre-U Diploma</td>
<td>D3 in Cambridge Pre U Principal Subject is accepted as equivalent to A-Level grade A Global Perspectives and Short Courses are not accepted.</td>
</tr>
<tr>
<td>Access</td>
<td>Not accepted</td>
</tr>
<tr>
<td>Your qualification</td>
<td>Requirements</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------</td>
</tr>
<tr>
<td></td>
<td>About our typical entry requirements</td>
</tr>
</tbody>
</table>

### International qualifications

Select your country or region to view specific entry requirements.

Many countries have a different education system to that of the UK, meaning your qualifications may not meet our entry requirements. Completing your Foundation Certificate, such as that offered by the [University of Liverpool International College](https://www.liverpool.ac.uk/international-college/), means you're guaranteed a place on your chosen course.

---

### ALTERNATIVE ENTRY REQUIREMENTS

- If your qualification isn't listed here, or you're taking a combination of qualifications, [contact us](mailto:enquiries@liverpool.ac.uk) for advice

- Applications from mature students are welcome.

---

**THE ORIGINAL REDBRICK**