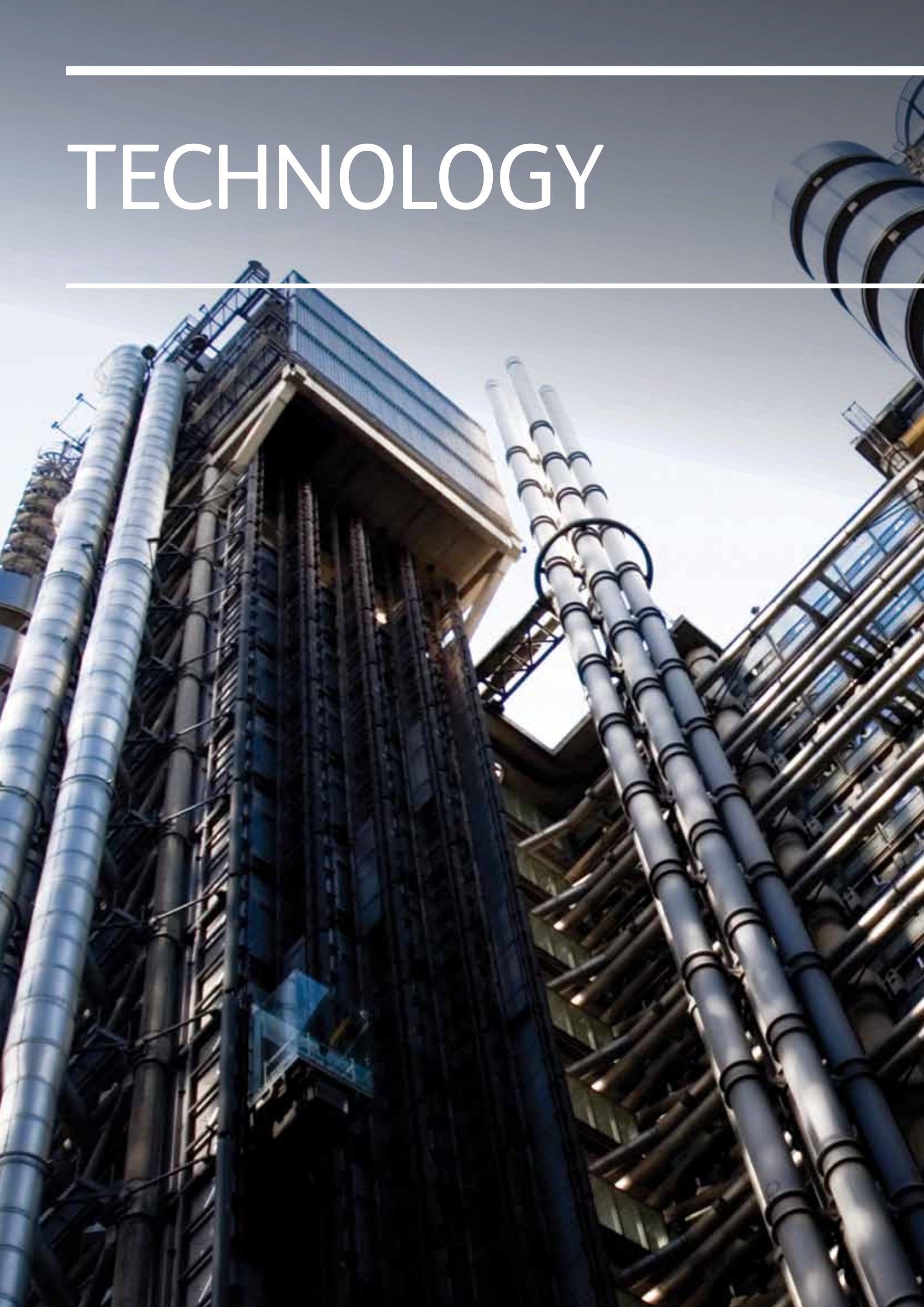
TECHNOLOGY



Our Technology courses fall into one of two subject areas: Built Environment or Engineering. Built Environment covers the essentials for creating the world in which we live. A key focus is sustainability in building technology and infrastructure. Engineering encompasses a range of specialised sub-disciplines. Each has a specific emphasis on certain fields of application and particular areas of technology. Our courses prepare students for a variety of exciting careers in civil, electrical, electronic, mechanical and audio engineering, and the construction industry.

Course	Award	UCAS Code	Location	Page
Applied Sound Engineering	BSc (Hons)	HH36 BSc/ASE	Ealing	164
Built Environment – Architectural Technology	BSc (Hons) BSc (Hons) – Top-up	K131 BSc/BEAT	Ealing	164
Built Environment – Construction Management	BSc (Hons) BSc (Hons) – Top-up	K221 BSc/BECM	Ealing	165
Civil and Environmental Engineering	BEng (Hons)	H290 BEng/CEE	Ealing	165
Electronics Engineering	BEng (Hons)	**	Ealing	166
Mechatronics	BSc (Hons) – Top-up	H730 BSc/Mech1	Ealing	166
Mechatronics	BEng (Hons)	H732 BEng/Mech	Ealing	167

** Please visit uwl.ac.uk for up-to-date course codes.

APPLIED SOUND ENGINEERING

BSc (Hons)

UCAS code:	HH36 BSc/ASE
Duration:	Full-time – Three years Part-time – Four to five years
Starting:	September
Location:	Ealing

ENTRY CRITERIA

200 UCAS points normally in a minimum of two subject areas, plus GCSE English and Maths or equivalent.

For international equivalences and alternative entry qualifications, please refer to page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

INTERVIEW/PORTFOLIO

Applicants may be required to attend an interview and provide a portfolio of work.

COURSE OVERVIEW

This course delivers both a solid understanding of sound engineering concepts as well as vocational skills for design, appliance and maintenance tasks within the audio and communications industries. Skills for production using music technology systems will be developed throughout the course.

The course exposes students to the latest developments in practice and ensures that they receive comprehensive theoretical knowledge, and related academic instruction in the technical and scientific elements of sound and music technology.

Today's audio industry now requires students to have a broader academic background and a wider skill set than ever before. The applied sound engineering elements of this course have been developed in collaboration with the Institute of Sound and Communications Engineers (ISCE).

The music technology elements of the course focus on the use of contemporary music technology systems. They build students' practical skills, as well as developing an informed technical understanding of how these systems work and how they are used in the production of today's music.

FURTHER STUDY

Successful graduates will be able to continue their studies at Masters level, choosing from a range of courses, including MA Audio Technology, MA Music Industry Management and Artist Development, MA Record Production and MA Performance Health and Personal Development.

CAREER OPPORTUNITIES

Successful graduates will be equipped with the knowledge and practical skills to work in the audio and communications industries. They may expect to find employment in a range of roles, including sound system designer, engineer, production, installation, maintenance, events engineer and education.

BUILT ENVIRONMENT – ARCHITECTURAL TECHNOLOGY

BSc (Hons)

BSc (Hons) – Top-up

UCAS code:	K131 BSc/BEAT
Duration:	BSc (Hons): Full-time – Three years Part-time – Five years BSc (Hons) – Top-up: Part-time – Two years
Starting:	September
Location:	Ealing

ENTRY CRITERIA

BSc (Hons)

200 UCAS points or equivalent, plus GCSE Maths and English or equivalent.

BSc (Hons) – Top-up

A HND/FdSc or equivalent qualification in architectural technology or a similar relevant subject.

For international equivalences and alternative entry qualifications see page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

COURSE OVERVIEW

Architectural Technology is a practically focused technical design course. Students taking this course will be trained and will study with the aim of taking on a professional role. The skills developed on this course are transferable to other design areas of built environment.

Architectural technologists use their technological knowledge to make sure building designs work as intended in real life. They work on domestic, commercial and industrial projects. Design and development is an increasingly complex issue. Reconciling the needs of the client, the community and the environment, the formation of design proposals and detailed decision-making are challenging tasks, which require expert and professional judgment.

This course enables students to appreciate the inter-relationships and multidisciplinary nature of built environment and gain a broad understanding of the work of fellow professionals in neighbouring disciplines. It also reinforces the attainment of sustainable design and construction.

PROFESSIONAL ACCREDITATION

This course is accredited by the Chartered Institute of Architectural Technologists (CIAT).

CAREER OPPORTUNITIES

This course is designed for students to pursue careers as architectural technologists in the construction industry. Students will be equipped with the skills required for this role; however, they will also learn skills that are transferable to other design roles within the field of built environment.

BUILT ENVIRONMENT – CONSTRUCTION MANAGEMENT

BSc (Hons)

BSc (Hons) – Top-up

UCAS code:	K221 BSc/BECM
Duration:	BSc (Hons): Full-time – Three years Part-time – Five years BSc (Hons) – Top-up: Part-time – Two years
Starting:	September
Location:	Ealing

ENTRY CRITERIA

BSc (Hons)

200 UCAS points or equivalent, plus GCSE Maths and English or equivalent.

BSc (Hons) – Top-up

A HND/FdSc or equivalent Level 5 qualification in construction management or a similar relevant subject.

For international equivalences and alternative entry qualifications see page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

COURSE OVERVIEW

Construction Management is a vocationally orientated commercial and technical course. Students taking this course will be trained for the professional role of construction or site manager. With a set of project management skills, a construction manager supervises and directs operations on a construction project, to ensure it is completed safely, on time and within budget. With sole responsibility for the whole project, the construction manager is the first point of contact for the subcontractors and the public.

This course enables students to develop an insight into various construction processes and techniques, as well as resource management and quality control.

PROFESSIONAL ACCREDITATION

This course is accredited by the Chartered Institute of Building (CIOB) and is also recognised by the Royal Institution of Chartered Surveyors (RICS) as suitable for the Associate RICS route to membership.

CAREER OPPORTUNITIES

This course is designed for students to pursue careers as construction managers. Typically, graduates from this course work in construction management, but many follow careers in project management, financial management and property development. Contractors, developers, professional consultancies, client organisations, central government and local authorities are common employers of construction management graduates.

CIVIL AND ENVIRONMENTAL ENGINEERING

BEng (Hons)

UCAS code:	H290 BEng/CEE
Duration:	Full-time – Three years Part-time – Five years
Starting:	September
Location:	Ealing

ENTRY CRITERIA

200 UCAS points (including Maths) or equivalent, plus GCSE English or equivalent.

For international equivalences and alternative entry qualifications see page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

COURSE OVERVIEW

Civil and environmental engineering is a vocationally orientated commercial and technical course. Students taking this course will be trained for the technical role of civil or environmental engineer. Civil engineers are involved in the planning, design and construction of large and small infrastructure and construction projects from roads, rail and bridges to flood defences, dams and buildings.

This course is designed to give students the technical and management skills required to fulfil various roles within the industry. On successful completion of the course, students will be able to seek Incorporated Engineer status.

PROFESSIONAL ACCREDITATION

This course is accredited by the Institution of Civil Engineers (ICE), the Institution of Structural Engineers (IStructE), the Chartered Institution of Highways and Transportation (CIHT) and the Institute of Highway Engineers (IHE).

CAREER OPPORTUNITIES

This course is designed for students who wish to pursue careers as civil or environmental engineers. Students will be equipped with the skills required for this role; however they will also learn skills that are transferable to other roles within the field of engineering.

Typically, graduates from this course work in civil engineering and environmental engineering; however their skills are commonly used in project management. Contractors, developers, professional consultancies, water companies, client organisations, central government and local authorities are common employers of civil and environmental engineering graduates.

ELECTRONICS ENGINEERING

BEng (Hons)

UCAS code:	**
Duration:	Full-time – Three years Part-time – Four to five years
Starting:	September
Location:	Ealing

ENTRY CRITERIA

200 UCAS points (including Maths and/or Physics) or equivalent, plus GCSE English and Maths or equivalent.

For international equivalences and alternative entry qualifications, please refer to page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

COURSE OVERVIEW

Engineering is a multi-faceted discipline; no single branch can stand in isolation, and all are intertwined, interacting with each other and the wider environment.

The design of this course reflects this inter-relationship but also illustrates the boundaries within which specialists operate. An electronics engineer may design a circuit but they need the scientific, materials and processing knowledge of a range of other specialists to bring about the functional realisation of their design.

The course emphasises the commonality of approach in the various forms of engineering. Students will firstly be exposed to the core themes that permeate engineering: mathematics and mathematical analysis and the scientific approach to investigation. Attention is focused on specialisation in the later stages of the course, by building on the much broader based set of studies in the early stages.

CAREER OPPORTUNITIES

Graduates will have a wide range of career options across many industries such as telecommunications, defence, aerospace, embedded systems, robotics, integrated circuit design and production, audio processing, and automotive systems.

** Please visit uwl.ac.uk for up-to-date course codes.

MECHATRONICS

BSc (Hons) – Top-up

UCAS code:	H730 BSc/Mech1
Duration:	Full-time – One year Part-time – Two years
Starting:	September
Location:	Ealing

ENTRY CRITERIA

A HND/FdSc or equivalent in engineering or a similar relevant subject.

For international equivalences and alternative entry qualifications, please refer to page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

COURSE OVERVIEW

This course has been designed to provide a mixture of theoretical and practical skills, for engineers in the modern mechatronics field.

The course builds on the mechanical and control engineering topics that students have studied at Level 5 and brings in the study of electronics, principally at system level. The combination of mechanical systems controlled by electronics systems is the core of mechatronics, and is typical of robotic and modern production systems.

The design module allows students to undertake research in an area of their choice, so that they can demonstrate their ability to develop a viable solution to a given problem.

CAREER OPPORTUNITIES

Graduates will be equipped to pursue either a technical or managerial career within engineering and related industries, developing products requiring mechanical and electrical interfaces.

MECHATRONICS

BEng (Hons)

UCAS code:	H732 BEng/Mech
Duration:	Full-time – Three years Part-time – Four to five years
Starting:	September
Location:	Ealing

ENTRY CRITERIA

200 UCAS points (including Maths and/or Physics) or equivalent, plus GCSE English and Maths or equivalent.

For international equivalences and alternative entry qualifications, please refer to page 169.

We also welcome applicants with no formal qualifications. These applications will be considered on an individual basis.

COURSE OVERVIEW

Engineering is a multi-faceted discipline; no single branch can stand in isolation, and all are intertwined, interacting with each other and the wider environment.

The design of this course reflects this inter-relationship but also illustrates the boundaries within which specialists operate. An electronics engineer may design a circuit but they need the scientific, materials and processing knowledge of a range of other specialists to bring about the functional realisation of their design.

The course emphasises the commonality of approach in the various forms of engineering. Students will firstly be exposed to the core themes that permeate engineering: mathematics and mathematical analysis and the scientific approach to investigation. Attention is focused on specialisation in the later stages of the course, by building on the much broader based set of studies in the early stages.

CAREER OPPORTUNITIES

Graduates will have a wide range of career options across many industries such as automation engineer, automotive design and manufacturing, production engineer, process engineer, systems engineer, project engineer, development engineer, maintenance engineer, technology teacher, armed forces engineer and TV/film model animator.