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Anthropology offers a means for understanding cultural and social diversity in the modern world. It is concerned with contemporary issues such as multiculturalism, identity politics, racism and ethnic nationalism, changing forms of the family, religious conflict, gender, and the political role of culture. It also addresses questions about human nature, such as, ‘What do we have in common with each other cross-culturally?’ and ‘What makes us different?’

Our degree programmes combine innovative and classical teaching methods with leading-edge research, and recognise the value of practical experience in the learning process.

Teaching and assessment

You will be taught through lectures and seminars. In addition, you will develop your classroom learning in regular tutorials in first and second years. These tutorials – unusual outside the Oxbridge system – provide an opportunity to develop academic skills in an informal and highly supportive context and help create a real sense of belonging within the department. In third year, you will receive one-to-one supervision for your final project. You will take part in practical modules and conduct field research. Methods of assessment vary and may include coursework, seen or unseen exams and other projects and tasks.

Placements

The four-year sandwich course gives you the opportunity to gain professional work experience in a variety of settings, both in the UK and abroad, to help you succeed in the job market.
Employability
Our graduates find jobs in education, non-governmental organisations (NGOs), international development, the charity sector, medical and health professions, film, journalism and business.

Careers
Students can go on to pursue both private and public sector careers including governmental organisations like the United Nations and NGOs like Save the Children. Our graduates also work as teachers and research officers and in other professions requiring knowledge of social and cultural processes.

Typical modules
• Introduction to Anthropology: Themes and Debates
• Introduction to Anthropology: Beliefs and Ways of Thinking
• Fieldwork Encounters: Thinking Through Ethnography
• Anthropology, Objects and Images
• Research Methods
• Ethnicity, Culture and Identity
• Anthropology and Contemporary Debates
• Ethnography of the Contemporary World – Selected Regions
• Classical Anthropological Theory
• Political and Economic Issues
• Kinship, Sex and Gender
• Contemporary Anthropological Theory
• Global Health in Anthropological Perspective
• Medical Anthropology
• Anthropology of the Body
• Anthropology of the Person
• Anthropology of Childhood and Youth
• Anthropology of Education and Learning
• Anthropology of International Development
• Themes in Psychological and Psychiatric Anthropology
• Global Communication
• Anthropological Perspectives on War and Humanitarianism

Exciting fieldwork placement opportunities in the UK and abroad

1st for Anthropology in the UK, Complete University Guide 2014

Not only have I been able to tremendously build up my CV, I have been able to do one of my placements in Peru!

Dianna Reid

Contact Dr William Rollason
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+44 (0)1895 265599
About the course

These degree courses cover a wide range of subjects in relation to human health, disease and treatment. You will develop practical, analytical and transferable skills and will be taught by academics who are renowned scientists. In your final year you will have the opportunity to contribute to our research programmes in cellular and biochemical pathways, the regulation of gene expression, DNA repair and immunological responses to microbial infection. Our Research Centres include The Brunel Institute for Cancer Genetics and Pharmacogenomics, The Centre for Cell and Chromosome Biology and the Centre for Immunology, Infection and Disease Mechanisms.

We have extensive state-of-the-art teaching and research laboratories, including a new containment Level 3 laboratory for research on tuberculosis and a bioimaging suite that houses 4D image capture and analysis equipment.

You can follow the mainstream Biomedical Sciences degree or gain specialist knowledge in a specific area. You can transfer between pathways at the end of Level 1.

The Biochemistry pathway explores the role of various metabolic pathways and how alterations of these can lead to specific human diseases.

The Genetics pathway emphasises how genetic mutations alter cellular processes and biomechanical pathways in normal metabolism and how these may be altered during human disease.

The Human Health pathway focuses on the role of infectious organisms in disease and how human activities can lead to disease transmission.

The Immunology pathway provides a greater understanding of the role of the immune system in preventing human disease and focuses on how deficiencies in immunity can result in disease susceptibility.

Accreditation

We are currently seeking accreditation from the Society of Biology.
Teaching and assessment

The course is taught through a mixture of lectures, seminars and practical laboratory sessions. You will have one-to-one supervision for your final year project. Learning is assessed in assessment blocks and includes coursework and formal written examinations that test knowledge, understanding, problem solving and data interpretation.

Employability

The Career and Professional Skills study blocks develop employability skills alongside further practical skills needed by biomedical scientists. You will have the opportunity to practice collecting, collating, interpreting and presenting numerical and literary data, laboratory skills, research skills, oral presentation skills, IT skills, report writing, self-management and organisation.

Careers

The course allows you to develop skills applicable to a wide range of employment opportunities such as medicine, postgraduate study, pharmaceutical research, pathology, diagnosis, clinical trials, scientific journalism, medical writing and data management. For those wishing to pursue a career as an NHS medical laboratory scientific officer, please note these courses are not IBMS accredited.

Placements

Your employability will be increased by undertaking a one-year work placement at a company or institution. Opportunities include pharmaceutical research at AstraZeneca or GlaxoSmithKline, basic research at various institutions (cancer research, infectious diseases, Alzheimer’s disease and others), hospital pathology/laboratory diagnosis, and data management.

Typical study blocks

(Compulsory and some optional)

- The Human Body: Principles of Anatomy and Physiology
- Biochemistry: Structure and Function
- Biology of the Cell
- Practical Skills
- Research Skills
- Critical Thinking
- Molecular and Cellular Biology
- Genetic Engineering and Immunobiology
- Principles of Human Disease
- Career Skills
- Analytical Biochemistry
- Metabolic Regulation
- Genetics and Development
- Medical Microbiology
- Final Year Project
- Microbial Pathogenesis
- Forensic Technologies
- Genomic Technologies
- Medical Biochemistry
- Biology and Treatment of Cancer
- Cellular Pathologies
- Endocrine Disorders
- Genomic Medicine
- Medical Immunology
- Molecular Pharmacology and Toxicology
About the course

This degree will equip you with a broad business and management background and the skills required to understand, analyse and address issues faced by today’s companies.

The general Business and Management pathway covers all the fundamental elements of Business and Management with a range of optional modules to choose from.

The accounting pathway gives students a broad overview of management issues with a specialist knowledge of the applications of accountancy to the world of commerce.

The marketing pathway covers the role of marketing functions. It offers the chance to explore fundamental principles of marketing. It offers the chance to explore fundamental principles of modern day marketing, such as market research, database marketing, exporting and marketing of not-for-profit services.

Professional accreditation

If you pass certain modules, you will be exempt from some entry level examinations of the Chartered Institute for Management Accountants (CIMA), the Association of Chartered Certified Accountants (ACCA), the Institute of Chartered Accountants in England and Wales (ICAEW) and the Chartered Institute of Public Finance and Accountancy (CIPFA).

Teaching and assessment

You will be taught using a variety of methods including lectures, seminars, workshops and discussion groups. You will receive one-to-one supervision for your dissertation. Assessment includes exams, written assignments, practical projects and presentations.

Employability

Business Life, our employability programme, is delivered in association with leading employers. You will gain an impressive portfolio of work experience, industry contacts and skills from workshops, taster sessions, networking events, CV clinics and more.

Placements

Our degree courses offer the option of a year on work placement. Employers include IBM, British Airways, Microsoft, Walt Disney, and PricewaterhouseCoopers. Many students are offered employment with their placement company upon graduation.
Careers
Popular choices include graduate management schemes offered by blue-chip recruiters and the financial sector, with students securing positions in major investment banks, as well as HR and marketing roles.

Typical modules

All pathways
- Management Enquiry
- Organisational Behaviour and Analysis
- Introduction to Accounting
- Principles and Practices of Marketing
- International Business Environment

General pathway
- Operations Management
- Marketing Communications
- Managing Change and Creativity in Organisations
- Project Management
- Human Resource Management
- Critical Perspectives in Management
- Strategic Management
- Issues and Controversies in Management Project
- Business Ethics, Environmental Sustainability and Governance
- Gender and Organisations
- Entrepreneurship and Small Business Ventures
- International Marketing
- Innovation and Knowledge Management

Accounting pathway
- Management Accounting – Decision Making
- Introduction to Business Law
- Quantitative Methods in Business and Management
- Accounting Information Systems
- Principles and Practices of Financial Accounting
- Management Accounting – Planning and Control
- Issues and Controversies in Accounting Project
- Auditing and Assurance
- Taxation
- Strategic Management
- Strategic Financial Management
- Entrepreneurship and Small Business Ventures
- Business Ethics, Environmental Sustainability and Governance

Marketing pathway
- Marketing Research
- Marketing Communications
- Marketing Channels and Logistics
- Consumer Behaviour
- Issues and Controversies in Marketing Project
- International Marketing
- Strategic Marketing
- Database and Customer Relationship Management
- Critical Perspectives in Management
- Internet Marketing
- Business Ethics, Environmental Sustainability and Governance
- Entrepreneurship and Small Business Ventures
- Brand Management
International Business BSc

About the course
The International Business programme will provide you with the fundamentals of national and international market economies and the multivalent forces that shape the operating environments of organisations, both nationally and internationally. This course places emphasis on globalisation and issues relating to multinational enterprises (MNEs). You will develop an understanding of topics including emerging markets, international relations, international marketing and business strategy, business ethics and more to equip you with the knowledge and skills necessary for a career overseas with multinationals or working with international clients.

Teaching and assessment
Many of our lecturers have worked as consultants for major companies worldwide, and have practical experience in business or have run their own companies. You will be taught using a variety of methods including lectures, seminars, workshops and discussion groups. In your final year you will receive one-to-one supervision for your dissertation. Assessment is by a variety of methods but includes traditional exams, written assignments, practical and creative design projects and individual and group presentations.

Employability
Business Life, our unique employability programme, is available to all of our students alongside their academic study. It is delivered in association...
with leading employers from business, industry and the public sector. By the time you graduate you will have an impressive portfolio of work experience, certificates, industry contacts and skills from our training courses, industry taster sessions, networking events, CV development sessions and more.

**Placements**

Our degree courses offer the chance to spend a year on work placement. Employers of placement students from Brunel include IBM, Lloyds TSB, British Airways, among many others.

**Careers**

International Business will prepare students for a wide range of opportunities within or associated with multi-national organisations such as banks, NGOs, charities and international brands. On average 86% of our graduates were working or combining work with further study six months after graduating. This figure was substantially higher for students who opted for the Placement option.

**Typical modules**

• Management Enquiry
• Organisational Behaviour and Analysis
• Managing Information with Technology
• Accounting
• Marketing
• International Business Environment
• International Business in Emerging Markets
• International Relations
• International Marketing
• Economics for Business and Management
• Human Resource Management and its International Dimensions
• Quantitative Methods
• Issues and Controversies in Management Project
• International Business Strategy
• Technology Management
• Globalisation and Governance
• Business Ethics, Environmental Sustainability and Governance
• Entrepreneurship and Small Business Ventures

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I picked the sandwich course and wanted to land myself industrial experience in a large company after working in many small companies part time whilst studying so I was over the moon when I got the job at IBM.

Jaimini Dodia

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Our Innovation Hub supports and advises students interested in setting up a business or enterprise.
Civil Engineering BEng/MEng

**BEng ENTRY CRITERIA**

GCE A-level ABB, including Maths and a Science subject (General Studies and Critical Thinking not accepted).

IB Diploma 31 points, including 5 in Higher Level Mathematics and 5 in a Higher Level Science subject.

BTEC Level 3 Extended Diploma D*DD, to include Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.

Access to HE Diploma Complete and pass Access to Engineering course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher. All Maths and Science units must be Distinctions at Level 3.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

**MEng ENTRY CRITERIA**

GCE A-level AAA, including Maths and a Science subject (General Studies and Critical Thinking not accepted).

IB Diploma 34 points, including 6 in Higher Level Mathematics and 6 in a Higher Level Science subject.

BTEC Level 3 Extended Diploma D*D*D* to include Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma courses are not accepted for the MEng entry. Access students should apply for the BEng in this subject. Those who achieve the progression requirements on our degree can transfer to the MEng at the end of Level 2.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

**About the course**

The next few decades promise to be among the most challenging ever for the Civil Engineering community. Increasing populations, progressive urbanisation, ongoing economic development and climate change present many threats to infrastructure, so civil engineers need to draw deeply on their knowledge, skills and creativity to provide essential, sustainable facilities.

This course aims to produce the next generation of leading Civil Engineers fully equipped to play leading professional roles in industry and the wider community. We will introduce you to mainstream civil engineering knowledge, understanding and practice, ranging from geotechnical site assessment to the sustainable design and assessment of structures.

This course is accredited by the Institution of Civil Engineers, the Institution of Structural Engineers, the Chartered Institution of Highways and Transportation, and the Institute of Highway Engineers.

The MEng degree course has been accredited as fully satisfying the educational base for a Chartered Engineer (CEng). The BEng degree course fully satisfies the educational base for an Incorporated Engineer (IEng); it partially satisfies the educational base for a Chartered Engineer (CEng).

**Accreditation**

Our philosophy is to underpin theoretical aspects of the subject with hands-on experience. You will be taught via lectures, laboratories and design studios plus one-to-one supervision for your final project. You will undertake assignments, project work, essays, reports on laboratory practicals, oral presentations, short tests and exams. A residential field course also takes place in Level 1.

**For Engineering with an Integrated Foundation Year entry see page 136.**
**Placements**

This programme enables you to gain high-quality, relevant professional experience which is sought by employers. This puts graduates in a strong position when entering the job market. Students who complete the thick-sandwich course will be awarded their degree ‘with Professional Development’.

**Employability**

This course will provide you with the transferable skills and knowledge necessary for you to go on to play a leading professional role in industry. Graduates will help fill the increasing demand for high-quality civil engineers.

**Careers**

Contractors and consultants working on large infrastructure projects such as bridges, tall buildings, tunnels, flood defence schemes, transport and power generation are likely environments for many of our graduates. Some progress to posts of responsibility with national and local government agencies or major firms of consulting engineers. Others specialise in construction, sustainability, innovative materials, foundation engineering, tunnelling, geotechnical exploration or building services engineering.

<table>
<thead>
<tr>
<th>Typical modules</th>
<th>MEng</th>
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<td>• Structural Design</td>
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<tr>
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<tr>
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<tr>
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<td>• Structural Mechanics</td>
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<tr>
<td>• Sustainable Construction</td>
<td>• Sustainable Construction</td>
</tr>
<tr>
<td>• Major Individual Project</td>
<td>• Major Individual Project</td>
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</tbody>
</table>

Contact Dr Mujib Rahman  
ce-ug-admissions@brunel.ac.uk  
+44 (0)1895 266633
Civil Engineering with Sustainability  BEng/MEng

**BEng ENTRY CRITERIA**

- **GCE A-level** ABB, including Maths and a Science or Technology subject (General Studies and Critical Thinking not accepted).

- **IB Diploma** 31 points, including 5 in Higher Level Mathematics and 5 in a Higher Level Science subject.

- **BTEC Level 3 Extended Diploma** D*DD, to include Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.

  For BTEC Level 3 and A-level combinations see the course web page.

- **Access to HE Diploma** Complete and pass Access to Engineering course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher. All Maths and Science units must be Distinctions at Level 3.

  In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

**MEng ENTRY CRITERIA**

- **GCE A-level** AAA, including Maths and a Science or Technology subject (General Studies and Critical Thinking not accepted).

- **IB Diploma** 34 points, including 6 in Higher Level Mathematics and 6 in a Higher Level Science subject.

- **BTEC Level 3 Extended Diploma** D*D*D* to include Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.

  For BTEC Level 3 and A-level combinations see the course web page.

- **Access to HE Diploma** courses are not accepted for the MEng entry. Access students should apply for the BEng in this subject. Those who achieve the progression requirements on our degree can transfer to the MEng at the end of Level 2.

  In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

**About the course**

Sustainability is at the heart of modern Civil Engineering. Increasing demand, higher standards, risk exposure and finite resources mean engineers who can combine technical expertise with creativity and professionalism are needed.

This course provides a mainstream education in Civil Engineering, with a particular focus on sustainable infrastructure design and development. We will introduce you to essential technical knowledge, ranging from surveying and site assessment to designing structures and environmental engineering.

Our course has been designed as a ‘hands-on’ learning experience. You will learn fundamental theory, and then test and apply that theory in the laboratory, using advanced software, and during field work. Professional engineers working with major clients, consultancies and contractors contribute to the course delivery, bringing real world experience to the course.

**Accreditation**

This course is accredited by the Institution of Civil Engineers, the Institution of Structural Engineers, the Chartered Institution of Highways and Transportation, and the Institute of Highway Engineers.

The MEng degree course has been accredited as fully satisfying the educational base for a Chartered Engineer (CEng). The BEng degree course fully satisfies the educational base for an Incorporated Engineer (IEng); it partially satisfies the educational base for a Chartered Engineer (CEng).

**Teaching and assessment**

Our philosophy is to underpin theoretical aspects of the subject with hands-on experience. You will be taught via lectures, laboratories and design studios plus one-to-one academic supervision for your final project. You will undertake assignments, project work, essays, reports on laboratory practicals, oral presentations, short
tests and exams. A residential field course also takes place in Level 1.

**Placements**

The sandwich degree enables you to gain high-quality, relevant professional experience which is sought by employers. Our MEng students have a number of job offers before they graduate. If you enter on the BEng route, you can transfer to the MEng programme at the end of Level 2 by obtaining a pre-set progression standard.

**Employability**

This course will equip you with the transferable skills and knowledge necessary to go on to play a leading role in industry and the wider community. Recent graduates have secured positions at Atkins, ARUP, Mace, Clancy Docwra, Aecom, Thames Water and Heathrow Airport.

**Careers**

Contractors and consultants working on large infrastructure projects such as flood and coastal defence schemes, transport, water treatment and low-carbon energy generation including off-shore wind farms, are likely environments for many of our graduates. Some take posts with national and local government agencies or major firms of consulting engineers. Others specialise in fields such as construction, sustainability, innovative materials, foundation engineering, tunnelling, geotechnical exploration or building services engineering, both in the UK and overseas. Recent graduates have secured positions at Atkins, ARUP, Mace, Clancy Docwra, Aecom, Thames Water and Heathrow Airport.

**Typical modules**

- **Construction and Sustainability**
- **Geotechnical Engineering and Surveying**
- **Structures**
- **Fluid Mechanics**
- **Analytical Methods and Skills**
- **Communication and Professional Skills**
- **Structural Design**
- **Civil Engineering Materials**
- **Geotechnical Engineering**
- **Civil Engineering Hydraulics**
- **Structural Mechanics**
- **Sustainable Infrastructure**
- **Major Individual Project**
- **Construction Contracts, Business and Sustainability**
- **Steel and Concrete Design**
- **Water Engineering**
- **Sustainable Infrastructure Development**

**MEng**

- **Major Group Project**
- **Sustainable Project**
- **Structural Design and FEA**
- **Sustainable Built Environment**
- **Geo-environmental Management**
- **Water Process Engineering**
Business Computing BSc

**BSc ENTRY CRITERIA**

**GCE A-level** AAB-ABB.  
Typical offer AAB.  
**IB Diploma** 33 points.  
**BTEC Level 3 Extended Diploma** D*D*D in a computing subject.  
For BTEC Level 3 and A-level combinations see the course web page.

**Access to HE Diploma** Complete and pass a related computing Access course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher.  
In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

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**About the course**

You will gain a good understanding of how information technology and computer-based systems can facilitate the needs of business. This course will equip you to assess what computing solution is appropriate in a given circumstance. Our degrees emphasise the acquisition of concepts and skills which will enable you to design creatively and professionally. The course balances theory with ‘real world’ practice in information and computer management.

The course allows you to continue with general Business Computing or to specialise in your final year in eBusiness, Human-Computer Interaction or Social Media.

The course offers full exemption from the British Computer Society’s professional examinations, allowing graduates to attain professional membership of the Society (MBCS) after a shortened period of relevant experience and training. The course also fully satisfies the academic requirement for registration as an Incorporated Engineer (full IEng accreditation) and part of the academic requirement for registration as a Chartered Engineer (partial CEng accreditation).

**BCS accreditation**

The course offers full exemption from the British Computer Society’s professional examinations, allowing graduates to attain professional membership of the Society (MBCS) after a shortened period of relevant experience and training. The course also fully satisfies the academic requirement for registration as an Incorporated Engineer (full IEng accreditation) and part of the academic requirement for registration as a Chartered Engineer (partial CEng accreditation).

**Teaching and assessment**

We take an innovative and highly participative approach to teaching that is supported by state-of-the-art subject understanding and the advice of our Industry Advisory Board. We are always willing to provide practical guidance to students. You will be taught using a variety of methods including lectures, seminars, laboratory work, small group sessions and one-to-one supervision.
Assessment methods vary and may be based entirely on coursework, entirely on examination or on a combination of both. Coursework may take the form of presentations, projects, reports/essays and practical work such as programming or simulation modelling.

Placements
Students who choose the professional placement option will gain high-quality, paid professional experience. Students secure placements at companies such as Accenture, AXA, Eli Lilly, GE, GlaxoSmithKline, IBM, Intel, Interoute, Microsoft and London Borough of Hillingdon.

Employability
Our courses have been created to include all the latest innovations taking place in the field of computing. They include a large range of subjects and specialised options which give you great flexibility of choice. Our aim is to prepare you to enter commercial careers where you will become problem solvers, communicators and team leaders. Group project work takes place at each level so you can acquire project management and teamworking skills.

Careers
Our graduates have a wide range of careers open to them and students who undertake the Professional Placement are particularly in demand. Recent graduates have gone on to work for Sky, IBM, EE, Glaxo, Atos Origin, UK Power Networks, Cap Gemini and more in roles such as software engineers, analyst programmers, business analysts, systems analysts, network engineers, web developers, and IT consultants.

Typical modules
- Group Projects
- Introductory Programming
- Data and Information
- Information Systems and Organisations
- Logic and Computation
- Software Development and Management
- Usability Engineering
- Business Analysis and Process Modelling
- ICTs in Society
- Final Year Project
- Software Project Management
- Advanced Topics in Business Computing
- eBusiness
- Human Computer Interaction
- Social Media
About the course

This course balances theory with ‘real world’ practice in information and computer management. You will gain a good understanding of computer science and a grasp of the important elements of a computer system. You’ll learn how to build different types of software – from web-based systems to mobile solutions. In the final year you’ll take core modules in advanced computer science and choose options including Artificial Intelligence, Digital Media and Games, Network Computing and Software Engineering.

You will learn about the efficient design of software and the various techniques that can be applied to software design, development and verification. You will also produce your own software.

Many of our staff have backgrounds in the computer industry in areas including applied computing research, information systems, software engineering, knowledge-based systems, and simulation modelling. This means we are always on top of industry developments.

We have a high quality infrastructure including more than 250 computers and servers for exclusive use – all running state-of-the-art software. The department is a member of the Microsoft DreamSpark program, the Apple iOS Academic Developer Programme and is an nVidia CUDA Teaching Centre.

BCS accreditation

The course offers full exemption from the British Computer Society’s professional examinations, allowing graduates to attain professional membership of the Society (MBCS) after a shortened period of relevant experience and training. The course also fully satisfies the academic requirement for registration as a Chartered Engineer (full IEng accreditation) and part of the academic requirement for registration as a Chartered Engineer (partial CEng accreditation).
Teaching and assessment
We take an innovative and highly participative approach to teaching that is supported by state-of-the-art subject understanding and the advice of our Industry Advisory Board. You will be taught using various methods, including lectures, laboratory work and small group activities. You will receive one-to-one supervision for your final project.

Assessment methods vary and will include exams and coursework. Coursework may take the form of presentations, projects, reports, essays and practical work such as programming or simulation modelling.

Placements
Students who choose the placement option will gain high-quality, paid professional experience. Students secure placements at companies such as Accenture, AXA, Eli Lilly, GE, GlaxoSmithKline, IBM, Intel, Interoute, Microsoft and London Borough of Hillingdon.

Employability
Our courses have been created to include all the latest innovations taking place in the field of computing. They include a large range of subjects and specialised options which give you great flexibility of choice. Our aim is to prepare you to enter commercial careers where you will become problem solvers, communicators and team leaders.

Careers
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Typical modules
- Group Projects
- Introductory Programming
- Data and Information
- Information Systems and Organisations
- Logic and Computation
- Software Development and Management
- Usability Engineering
- Algorithms and their Applications
- Networks and Operating Systems
- Final Year Computer Science Project
- Software Project Management
- Advanced Topics in Computer Science
- Artificial Intelligence
- Software Engineering
- Network Computing
- Digital Media and Games
Creative Writing BA

About the course

The creative writing programme at Brunel is one of the oldest-established in the UK and is taught by a range of staff who regularly produce bestselling novels, screenplays for major movies or journalism for the best of the British and international press. We combine this expertise with a supportive environment for students looking to break into writing.

You will work within a vibrant academic discipline that specialises in contemporary literature and culture. Whether you’re interested in travel writing, journalism, comedy screenwriting, performance poetry, the short story or the contemporary novel, this forward-thinking, industry-focused course will help you achieve your best.

This course will give you a secure foundation in the techniques of writing fiction, drama and poetry, and introduce you to the idea of writing as a profession. You will be able to develop your own creativity and explore different genres of writing under the guidance of experienced staff and practicing writers. Good writing and creative skills have never been more important, especially for anyone seeking a career in the burgeoning creative industries.

In the final year you will undertake a major writing project. You will also work on a critical project that supports your writing – so if you choose to write a film comedy, you will be encouraged to study contemporary screen comedy. This is your opportunity to pursue your individual interest – whether it’s writing an epic poem or a portfolio of journalism, we have members of staff who will share your enthusiasm and help you to achieve your goal.

BA ENTRY CRITERIA

GCE A-level Typical offer ABB, including Grade B in English (Language or Literature) or Creative Writing.

IB Diploma 31 points including 5 in Higher level English.

BTEC Level 3 Extended Diploma D*DD in a related subject (applicants without A-level English Literature or English Language and Literature will be required to submit a written sample of work on request).

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher. All English units must be Distinctions at Level 3 and applicants must provide a sample of creative writing.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

UCAS codes

Creative Writing BA
W800 3 years
4.5-6 years

English and Creative Writing BA
Q3W8 3 years
4.5-6 years

Games Design and Creative Writing BA
WW28 3 years
4.5-6 years

Theatre and Creative Writing BA
W4WW 3 years
4-7 years

ABB-BBB

www.brunel.ac.uk/courses
Check the Web for up-to-date course, entry criteria and fees information

Emma Jeremy reading her story from The Voices Inside Our Heads, an anthology featuring short stories by Creative Writing students.
Teaching and assessment

You will be taught through various methods such as lectures, tutorials, workshops, screenings and seminars. You will receive one-to-one supervision for your final year project and as required throughout the course. Assessment is by a combination of writing portfolios, essays, projects, and presentations.

Employability

The mastery of language and the ability to research topics, process information and express ideas, all of which Creative Writing confers, are workplace skills which are highly valued by employers in many fields. We work closely with agents, publishers, producers and other key industry professionals, not only to give you the best opportunity to understand the industries through which your writing will reach its audience, but also to give you the best introduction to the writing professions through the career-focused Creative Writing and the Creative Industries module.

Careers

This course is an ideal foundation for those wanting to move directly into the writing professions or the creative industries, and has been designed to develop confidence, skills and awareness in those who opt to follow our career-focused MA programmes. Graduates have also moved into publishing, journalism, advertising, film and television production, business writing, public relations and teaching. Past students have gone on to work in companies such as the BBC and Universal Studios, as well as publishing novels, having plays produced and screenwriting.

Typical modules

- English in Evolution
- Writing Drama
- Writing Fiction
- Thinking about Literature
- Writing Poetry
- Writing the Short Story
- Writing Journalism
- Screenwriting
- Writing the Journey
- Major Project or Dissertation
- Writing Modern Fiction
- Writing Comedy
- Minor Project or Dissertation
- Creative Writing and the Creative Industries

I initially chose Brunel for my course’s content, but was persuaded even more when I visited the campus by both the clean and welcoming nature of the University.

Sophie Lockhart
Industrial Design and Technology BA

UCAS codes
Industrial Design and Technology BA
HW72 3 years FT
HWR2 4 years FT

= full-time
= thick-sandwich

ABBB

www.brunel.ac.uk/courses
Check the Web for up-to-date course, entry criteria and fees information

BA ENTRY CRITERIA

GCE A-level ABB, including B in Design and Technology, Product Design, Art or Art and Design (General Studies and Critical Thinking not accepted).

IB Diploma 31 points, including 5 in Higher Level Design subject.

BTEC Level 3 Extended Diploma D’DD in a related subject.

For BTEC Level 3 and A-level combinations see the course web page.

Advanced Diploma Progression Diploma Grade A in Creative and Media, Engineering or Manufacturing and Product Design, plus a C at A-level for Additional and Specialist Learning.

Access to HE Diploma Complete and pass Access to Engineering or Art and Design course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

Formal offers will only be made following attendance at a selection day.

About the course
This course produces designers who have the ability to realise their design solutions together with a comprehensive understanding of design theory.

The technical emphasis means that students can develop products that both look good and work well.

This course, taught in parallel with Brunel’s BSc design courses, is distinguished by including technical content whilst maintaining a creative and practical approach. We emphasise the application of technology throughout the course, with integrated project work. You will develop your own strengths and portfolio of a wide range of design work towards the design career of your choice. Final year options have a strong technological and human-centred focus, and your major project usually comprises an aesthetic model and a functional prototype.

Accreditation
Our design courses are accredited by the Institution of Engineering Designers (IED) to ensure that the courses maintain their academic and commercial relevance. Student membership of the IED is free and encourages continuous professional development through journals and conferences. On graduation, students are eligible for full membership, with further career and training options which can lead to Chartered Engineer status.
Teaching and assessment
You will be taught using a variety of methods including lectures, tutorials in small groups and one-to-one, and workshops.
Your knowledge and understanding are tested by a range of assessment tasks, including written and multiple-choice examinations, laboratory reports, written coursework, individual and group design projects, 2D and 3D product development, problem-solving exercises, oral presentation, visual media projects and computer programming exercises.

Placements
Work placements offer you direct industrial experience of working on ‘live’ design projects with some of the best companies in the world.

Employability
We have a reputation for producing high quality graduates who will be able to take on key roles encompassing all aspects of the design process, as well as being prepared for further research-based studies.

Careers
Our graduates are highly sought-after in a wide range of sectors including the manufacturing, service and engineering industries, new product development, design management and consultancy companies. Many go on to set up their own businesses. Employers of our graduates include Apple Computers, Habitat, Lego, Orange, RNIB, Dyson and Jaguar Land Rover.

Typical modules
- Design Process
- Workshops with Materials
- Graphic Communication
- Product Analysis
- Creative Engineering Practice
- Design for Manufacture
- Design Applications
- Systems Design
- Design Communication
- Major Project
- Innovation Management
- Contextual Design
- Environmentally Sensitive Design
- Advanced Graphics
- Computer-based Design Methods
- Embedded Systems for Design

Over 75% of our students have a placement year in industry with leading Design companies and consultancies, and get to work on real world briefs set by major UK or international clients throughout their course.


I was short-listed for the Design Week Rising Star Award, which prompted me to move to Japan and establish my own design studio.

Duncan Shotton
**About the course**

These courses have a technical emphasis, meaning you will learn to develop products that both look good and work well. These programmes aim to develop versatile designers with a sound knowledge and broad understanding of the technological, manufacturing and creative aspects of design. The courses run in parallel for the first two years, with modules containing a balanced blend of creative and technical subjects.

**Product Design** combines the concepts of commercial awareness with creative thinking and sound technological reasoning. The degree emphasises aesthetic awareness and understanding of market trends. All modules have creative and project-based working including human factors, environmentally sensitive design and graphic design.

**Product Design Engineering** is for creative thinkers who are also comfortable with mathematics and who enjoy deeper analysis of function and technical design challenges. Your final-year major project is likely to include a functional prototype incorporating mechanics and/or electronics.

**Accreditation**

All our design courses are accredited by the Institution of Engineering Designers (iED) to ensure that the courses maintain their academic and commercial relevance. Student membership of the iED is free and encourages continuous professional development through journals and conferences. On graduation, students are eligible for full membership, with further career and training options which can lead to Chartered Engineer status.

**Teaching and assessment**

You will be taught using a variety of methods including lectures, practicals, tutorials for project work both in small groups and one-to-one, and workshops. Your knowledge will be tested by a range of assessment tasks, including written and multiple-choice examinations, laboratory reports, written coursework, individual and group design projects, problem-solving exercises, oral presentation, visual media projects and computer programming exercises.

**UCAS codes**

Product Design BSc

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Product Design Engineering BSc

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<td>WHF7</td>
<td>Full Time/Thick-sandwich</td>
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</table>

ABB = full-time

THICK = thick-sandwich
Placements
Work placements offer you direct industrial experience of working on ‘live’ design projects with some of the best companies in the world.

Employability
We have a reputation for producing high-quality graduates who will be able to take on key roles encompassing all aspects of the design process. Our graduates enjoy superb employment prospects and enter careers in a wide spectrum of environments, including the manufacturing, service and engineering industries, design management and consultancy companies. Many go on to set up their own businesses.

Careers
We teach highly motivated students to become imaginative yet practical professional designers who are highly sought-after in a wide range of sectors.

Typical modules
- Design Process
- Workshops with Materials
- Mechanics for Design
- Electronics and Mathematics
- Graphic Communication
- Design for Manufacture
- Electronics, Programming and Interfacing
- Dynamics, Mechanisms and Stress Analysis

Product Design Engineering
- Major Project
- Innovation Management
- Computer-based Design Methods
- Environmentally Sensitive Design
- Advanced Graphics
- Contextual Design
- Embedded Systems for Design


My final-year project, *Kulinda*, was developed to reduce the risk of HIV transmission from mother to child during breastfeeding

Emily Riggs

Made In Brunel, the student-led graduate showcase
Economics BSc

BSc ENTRY CRITERIA

GCE A-level BBB, including Maths or Statistics (General Studies not accepted).

IB Diploma 30 points, including 5 in Higher Level Maths or 7 in Standard Level Maths.

BTEC Level 3 Extended Diploma D*DD in a related subject plus Grade B in A-level Maths or Statistics.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher plus Grade B in A-level Maths or Statistics.

For applicants applying for the joint degrees of Economics and Business Finance, Economics and Management or Politics and Economics to meet the Maths component we require AS-level Grade C in Maths or Statistics or if carried onto A-level a Grade B in Maths or Statistics.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

UCAS codes

Economics BSc
L101 3 years
L106 4 years

Economics and Business Finance BSc
LND3 3 years
LNC3 4 years

Economics and Management BSc
LND2 4 years

Politics and Economics BSc
LLC2 3 years
LL12 4 years

= full-time
= thick-sandwich

www.brunel.ac.uk/courses

Check the Web for up-to-date course, entry criteria and fees information

About the course

Economics courses at Brunel combine an understanding of theory with the practical skills necessary to apply your knowledge to a business, industrial, financial or government environment.

This broad-based course aims to produce economists with a range of technical expertise including quantitative and computing skills. You will become familiar with the analytical packages such as Bloomberg widely used by business and financial institutions. Emphasis is placed on the application of theoretical principles in the working environment.

As well as modules in finance, computing and quantitative methods, you will take a range of modules in Economics, including a selection of applied modules in the final year. In your final year you will also undertake a major project, a piece of personal research which may stem directly from a work placement or will be stimulated by topical issues such as directors’ pay, regulation of utilities or the European union.

Teaching and assessment

You will be taught using a variety of methods including lectures, seminars and workshops and will have one-to-one supervision for your final year dissertation. You will be assessed by examination and coursework, including some project work and essays.
Employability
Knowledge of economics is crucial in a world of integrating global markets and the information superhighway, and our aim is to give students ‘employable knowledge’. Economics graduates go on to further study, become professional economists or accountants or are employed in industry, the financial sector or government.

Careers
Our graduates have gone on to work in the City, Central Government, Local Government and industry including Natwest, PricewaterhouseCoopers, the Treasury, National Audit Office, BP and Marks and Spencer.

Placements
Sandwich course students have the chance to undertake paid, professional work experience in the heart of the financial, business and public sector, in the UK or overseas. You will gain invaluable professional skills and knowledge through work placement.

Typical modules
- Microeconomic Principles
- Macroeconomic Principles
- Financial Markets
- Mathematics for Economics and Finance
- Statistics for Economics and Finance
- Introduction to Financial Accounting
- Economic Modelling
- Mathematical Economics
- Money and Banking
- Economics of Information
- Further Econometrics
- Advanced Topics in Economic Theory
- Managerial and Industrial Economics
- Behavioural Economics and Finance
- The Economics of Labour Markets
- International Money and Finance
- Development Economics

This course includes a module on econometrics to help develop the practical skills of data modelling using computer programmes: a highly sought after skill by employers in finance and investment.

This course provides training and access to a variety of industry analytical tools including SAS, Eviews, Bloomberg, Reuters and STATA amongst others.

I undertook a placement in Morgan Stanley where my role was in the Derivative Trade Support team.

Andy Baker

course-enquiries@brunel.ac.uk +44 (0)1895 265599
Economics and Accounting BSc

About the course
The purpose of this course is to provide students with a strong intellectual and practical grounding in both economics and accounting. This course combines an understanding of theory with the practical skills necessary to apply your knowledge to a business, industrial, financial or government environment.

This programme allows students to develop the fundamental analytical techniques of micro- and macroeconomics, while also developing knowledge and understanding of the core concepts and issues in financial and management accounting. Emphasis is on both theory and practical applications.

As a graduate of this course, you will be exempt from some professional accountancy exams.

Teaching and assessment
You will be taught using a variety of methods including lectures, seminars and workshops and will have one-to-one supervision for your final year dissertation. You will be assessed by examination and coursework including some project work and timed essays.

Employability
This course seeks to equip graduates with the core theoretical and practical skills necessary to understand and analyse economic and accounting...
issues that arise in the business world, and to prepare them for a variety of potential careers including management consultancy, accountancy and banking.

Careers
Our students have excellent career prospects. Graduates have gone on to work for prestigious companies including Merrill Lynch, NatWest, Morgan Stanley, PricewaterhouseCoopers, JP Morgan, HSBC, Ernst & Young, the London Stock Exchange and UBS.

Placements
Sandwich course students have the chance to undertake paid, professional work experience in industry, the public sector and commerce in the UK or overseas, as well as in the heart of the UK’s financial sector. You will gain invaluable professional skills and knowledge through work placement.

Typical modules
• Microeconomic Principles
• Macroeconomic Principles
• Financial Markets
• Mathematics for Economics and Finance
• Statistics for Economics and Finance
• Introduction to Financial Accounting
• Management Accounting and Decision-making
• Financial Accounting and Statement Analysis
• Company Law and Regulation
• Managerial and Industrial Economics
• Auditing
• International Money and Finance
• The Economics of the Labour Market
• Development Economics
• Behavioural Economics and Finance
• Further Econometrics
• Taxation

This course provides training and access to a variety of industry analytical tools including SAS, Eviews, Bloomberg, Reuters and STATA amongst others.

Recent placements have included the International Stock Exchange, HM Treasury, Bank of England and IBM.

The lectures are combined with seminars, which work together throughout the year to prepare you for the exams.

Marvin Luzinda

This course provides training and access to a variety of industry analytical tools including SAS, Eviews, Bloomberg, Reuters and STATA amongst others.

Recent placements have included the International Stock Exchange, HM Treasury, Bank of England and IBM.

The lectures are combined with seminars, which work together throughout the year to prepare you for the exams.

Marvin Luzinda
Finance and Accounting BSc

UCAS codes
Finance and Accounting BSc
NN34  3 years  FT
NN3K  4 years  THICK

ABB
www.brunel.ac.uk/courses
Check the Web for up-to-date course, entry criteria and fees information

BSc ENTRY CRITERIA

GCE A-level ABB including Maths (General Studies not accepted).
IB Diploma 31 points, including 5 in Higher Level Maths.
BTEC Level 3 Extended Diploma D*DD in a related subject plus Grade B in A-level Maths.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher, plus AS-Level Maths/Statistics grade B.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

About the course
This programme provides a distinctive and effective background for a successful career in the financial and accounting sector. You will learn about topics including investment, corporate finance and taxation. In your final year you will undertake a dissertation which may stem directly from a work placement or will be stimulated by topical issues.

The purpose of this course is to produce high quality graduates with a theoretical and practical grounding as well as the technical expertise necessary to evaluate decision-making in finance and accounting.

As a graduate of this course, you will be eligible for selective exemptions from some professional exams.

Teaching and assessment
You will be taught using a variety of methods including lectures, seminars and workshops. You will have one-to-one supervision for your final year dissertation. You will be assessed by examination and coursework including some project work and essays.

Employability
This degree programme enables graduates to develop a range of theoretical and practical skills in finance and accounting. Emphasis is placed on developing transferable skills to ensure graduates are well equipped for a wide range of finance and accounting careers.
Careers
Economics and Finance graduates from Brunel have an excellent employment record and go into a wide variety of occupations. Some go on to further study and become professional economists or accountants. Others are employed in industry, the financial sector or government. Finance and Accounting graduates also have prospects in the world of corporate banking and financial services. Graduates have gone on to work for organisations such as NatWest, HSBC, Ernst & Young and The London Stock Exchange.

Placements
If you follow the four-year thick sandwich programme you will gain invaluable professional skills and knowledge through work placement. Placements could be in commercial, financial, or public sector organisations such as with members of the International Stock Exchange and other financial markets, banks, oil companies, accounting firms, the Treasury, Department of Trade and Industry, local authorities and health trusts.

Typical modules
- Macroeconomic Principles
- Microeconomic Principles
- Financial Markets
- Statistics for Economics and Finance
- Corporate Finance
- Corporate Investment
- Econometrics for Finance
- Management Accounting and Decision-making
- Financial Accounting and Statement Analysis
- Company Law and Regulation
- Auditing
- Financial Accounting
- Financial Theory and Corporate Policy
- Financial Engineering
- Further Econometrics
- Behavioural Economics and Finance
- Taxation
- Risk Management

You will have an introduction to a variety of professional databases including Datastream, Bloomberg, Bank Scope, Osiris, Reuters 3000 Xtra and Thomson One Banker

Students have the option of a Work Placement Year plus Brunel’s employability skills building course, Brunel Business Life, which runs throughout the degree

I was pleased to obtain a placement at Air France and worked in the finance department for a year, which was an amazing experience

Preeti Lumb
About the course

Inspire a Generation! Rated second in England for teaching, Contemporary Education at Brunel University London is an exciting programme that will equip you with the skills, knowledge and experience to support the next generation of children and young people. The programme combines the study of Education with Professional Practice and is designed to offer a pathway into a range of education professions and postgraduate professional study.

Contemporary Education at Brunel offers:
• classes taught by an experienced, friendly and highly qualified team of academics and Education Practitioners
• small class sizes allowing us to tailor the programme to your career aspirations whether that be teaching, youth work or any other child or youth support role
• three integrated work placements which give you the opportunity to explore all your options in education and related fields
• a supportive and close knit community to nurture your talent
• a successful track record of employment and further study

If you are considering teaching, you will need to complement your degree with a one-year PGCert (PGCE): if you successfully complete the Contemporary Education BA, you will have the opportunity to be considered for Brunel’s highly regarded PGCert Primary programme, provided you meet government requirements and University entry criteria.

BA ENTRY CRITERIA

GCE A-level BBC.
IB Diploma 29 points.
BTEC Level 3 Extended Diploma DDD in a related subject.
For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3 and 15 credits at Level 2 with Merits in all units.
In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

UCAS codes

Contemporary Education BA
X300 3 years 🏷️
6 years 🧔

☑️ = full-time
☑️ = part-time

This is a flexible course with friendly and knowledgeable staff who will help prepare you for a range of careers working with children and young people

Dr Nic Crowe

www.brunel.ac.uk/courses

Check the Web for up-to-date course, entry criteria and fees information

CONTEMPORARY EDUCATION

Accessibility

This is a flexible course with friendly and knowledgeable staff who will help prepare you for a range of careers working with children and young people

Dr Nic Crowe

www.brunel.ac.uk/courses

Check the Web for up-to-date course, entry criteria and fees information

CONTEMPORARY EDUCATION

Accessibility
Teaching and assessment
You will be taught through various methods such as lectures, tutorials, workshops and seminars, independent learning and research project activities. Your progress will be assessed in a variety of ways including individual and group project work, essays, oral presentations, report writing and class-based tests.

Placements
You will undertake work placements in each year to enhance your employment prospects. Students may undertake placements in a range of settings including nurseries, schools, colleges, universities, training bodies, youth service and community education organisations. We have developed a bank of organisations looking to work with us.

Employability
You will gain work-based experience which will give you the opportunity to apply and enhance your learning and skills in professional settings.

Careers
Brunel Contemporary Education graduates enjoy careers in teaching, counselling, education psychology, early years education, continuing professional development, business trainers, social work and education management.

Typical modules
• Understanding Learning
• Human Development: Childhood to Adolescence
• Education and Society
• Multi-disciplinary Perspectives
• Study Skills and Methods of Enquiry
• Working in Educational Settings
• Living and Learning in Different Communities: Cultural Perspectives and Comparisons
• Individual and Group Learning in Informal Environments
• Research Methods
• Exploring Educational Environments
• Growing Up in Twenty First Century Britain
• Education in Formal Contexts
• Education in Informal Contexts
• Research in Educational Contexts
• Research Project
Computer Systems Engineering BEng
Computer Systems Engineering (Networks) BEng
Computer Systems Engineering (Software) BEng

About the course

Computer Systems Engineering

Modern systems, from mobile phones to automobiles, are rarely purely hardware or software based, and in most cases they are a combination of both. Today’s industry has a clear need for trained engineers who possess knowledge and expertise in both hardware and software disciplines, with the ability to combine their knowledge to create technological systems.

This course keeps a perfect balance between developing the skills to build cutting edge hardware and also developing the skills needed to create smart software to drive it. This course aims to produce highly qualified engineers who will take up demanding roles within the electrical industry by developing leadership, innovation and creative skills to help students aspire to successful engineering careers.

Computer Systems Engineering (Networks)

The Networks route will produce professionals with specific expertise in networking and computing engineering. The industry sectors that would be attracted by these graduates vary from networking companies and computer manufacturers to mobile telecommunications and wireless infrastructures organisations.

Computer Systems Engineering (Software)

The Software route will produce graduates with specific knowledge and expertise in software engineering. The careers of these graduates range from being employed in a software house and designing code to any kind of firmware or middleware responsible for driving a variety of hardware. This also includes research-led professional positions where software development is needed.

BEng ENTRY CRITERIA

GCE A-level ABB – BBB, including a Science, Engineering or Maths subject (General Studies and Critical Thinking not accepted).

IB Diploma 31 points, including 5 in a Higher Level Maths, Science or an Engineering subject.

BTEC Level 3 Extended Diploma D*DD including Distinction in a Maths module and Distinction in either Electrical or Electronic Principles.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass Access to Engineering course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher. All Maths and Science units must be Distinctions at Level 3.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

UCAS codes

Computer Systems Engineering BEng
GH56 3 years 
GH5P 4 years

Computer Systems Engineering (Networks) BEng
G421 3 years 
G4N6 4 years

Computer Systems Engineering (Software) BEng
G603 3 years 
GKN6 4 years

ABB-BBB

www.brunel.ac.uk/courses
Check the Web for up-to-date course, entry criteria and fees information

For Engineering with an Integrated Foundation Year entry see page 136.
We have strong industrial links and formally liaise with industrial partners about appropriate course content and emerging trends.

Accreditation
All our BEng Programmes are accredited by the Institution of Engineering and Technology (IET).

Teaching and assessment
You will be taught through various methods such as lectures, laboratory work, tutorials, workshops and seminars. There may be guest speakers. You will receive one-to-one supervision in your final year project. Assessment is by a combination of exam, written assignments, practical and creative design assignments, laboratory work and individual group presentations.

Employability
The growth in demand for engineers who are able to design computer systems is expected to continue. Graduates with appropriate training are likely to have excellent employment opportunities in such diverse fields as finance, leisure, media and marketing, as well as in all forms of engineering and computer industries.

Careers
Recent graduates work for prominent companies in roles such as Technologist, Software Developer, Software Engineer, Technology Analyst, Electronic Development Engineer, Computer Engineer, Consultant, IT Support Officer and Project Delivery Officer.

Placements
You have the opportunity to undertake high quality work placements within prestigious organisations such as Intel, Renesas, O2, General Motors, GSK and Motorola. Increasingly, students are selecting smaller companies to obtain a more flexible placement opportunity. The industrial placement year is assessed and contributes to your degree.

Typical modules
- Digital Systems and Microprocessors
- Scripting and Web Applications
- Problem Solving and Programming
- Computer Systems Mathematics
- Internet and Web Technologies
- Computer Systems Workshop
- Data Networks, Services and Security
- Computer Architecture and Interfacing
- Digital System Design and Reliability Engineering
- Multimedia Content Analysis and Delivery
- Object Oriented Systems Programming
- Engineering Group Design Project
- Management
- Major Individual Project
- Distributed Systems and Computing
- Network Design and Advanced Data Security
- Software Engineering and Technology
- e-Systems Development
- Design of Intelligent Systems
- Advanced Digital Systems
- e-Business Systems

Contact Dr David Smith
course-enquiries@brunel.ac.uk
+44(0)1895 265814
About the course
Most modern devices have moved away from a traditional purely hardware or software design and are nowadays a combination of both of these elements. Modern industry is therefore in need of trained engineers that are skilled in hardware design and software creation as well as having the ability to take on managerial roles.

You will develop skills, expertise and knowledge in the areas of computer hardware and architecture, computer software, digital electronics, communication networks, embedded systems and interfacing.

The range of modules available later in the programme allow you to maintain a breadth of knowledge or to specialise, with a focus on computer hardware design, data communication networks or distributed computing.

Accreditation
All our MEng Programmes are accredited by the Institution of Engineering and Technology (IET).

Teaching and assessment
You will be taught through various methods such as lectures, laboratory work, tutorials, workshops and seminars.
You will receive one-to-one supervision in your final year project. Assessment is by a combination of exams, written assignments, practical and creative design assignments, laboratory work and individual group presentations.

Employability
For the foreseeable future, the most significant growth will be in the development of reliable and efficient computer systems. Graduates with appropriate training in this discipline are likely to have excellent employment opportunities in diverse fields.
The software/hardware balance in this course makes graduates attractive to both electronic engineering and software development companies  
Dr Konstantinos Banitsas

Careers
Recent graduates have gone on to work for prominent companies including Barclays Global Investors, the Royal Mail, Accenture, British Sky Broadcasting, Fujitsu, IBM UK Ltd, GMC, Viglen Ltd and a variety of design companies. They have undertaken roles as Technologist, Software Developer, Software Engineer, Technology Analyst, Electronic Development Engineer, Computer Engineer, Consultant and Product Development Engineer.

Placements
You have the opportunity to undertake high quality work placements within prestigious organisations such as Intel, Renesas, O2, General Motors, GSK and Motorola. Increasingly, students are selecting smaller companies to obtain a more flexible placement opportunity.

Typical modules
- Digital Systems and Microprocessors
- Scripting and Web Applications
- Problem Solving and Programming
- Computer Systems Mathematics
- Internet and Web Technologies
- Computer Systems Workshop
- Data Networks, Services and Security
- Computer Architecture and Interfacing
- Digital System Design and Reliability
- Multimedia Content Analysis and Delivery
- Object Oriented Systems Programming
- Engineering Group Design Project
- Management
- Major Individual Project and Project Management
- Design of Intelligent Systems
- Network Design and Advanced Data Security
- Distributed Systems and Computing
- Advanced Digital Systems
- Major Group Project
- Embedded Systems Engineering
- Innovation, Business and Enterprise for Engineers
- Computer Networks
- Optical Satellite and Mobile Communications
- Network Design and Management
- Advanced Mobile Systems
- Intelligent Signal Processing

We have strong industrial links and formally liaise with industrial partners about appropriate course content and emerging trends
Digital Design BSc

About the course
This unique course is focused on the intersection of the Arts and Sciences. As a result of this vivid interaction, new forms of creativity can be generated. Our course combines ideas from digital technologies with those of creative design. The programme is hands-on and intellectually and creatively challenging. You should be someone who appreciates the role of communication in human life, who takes pride and care in how you organise and present your work, and you should be fascinated by technology and its creative potential.

The course assumes no specific educational subject background, but does require an interest in IT combined with creative design flair.

The use of practical creative studios plays a central role in consolidating understanding of taught material, and in the development of design and creative skills. Our studio work makes use of individual studios devoted to motion capture, photography, web design, 3D graphics, 2D graphics, sound and video capture/editing. Within these environments we use a wide variety of teaching, learning and assessment methods.

Teaching and assessment
You will be taught through various methods such as lectures, tutorials, studio work, workshops and seminars and you will receive one-to-one supervision in your final year project. If you go on placement you will be allocated a visiting tutor to help you to set objectives, monitor your progress, and provide support. Assessment is by a combination of exams, written assignments, practical and creative design projects and individual and group presentations.

Accreditation
Our BSc course has been awarded the Creative Skillset Tick, the industry kitemark of quality, following a rigorous assessment process by experts working in the Creative Industries. The Creative Skillset Tick is awarded to practice-based courses which best prepare students for a career in the industry.

www.creativeskillset.org/pickthetick

UCAS codes
Digital Design BSc
H6W2  3 years
H6WG  4 years

= full-time
= thick-sandwich

BSc ENTRY CRITERIA

GCE A-level BBB, preferably to include one creative subject such as Fine Art, Graphic Design or Photography and one technical subject such as Maths, Computing or Physics. Other relevant A-levels may be considered (General Studies and Critical Thinking not accepted).

IB Diploma 30 points, including 5 in Higher Level subject combinations listed under A-level entry.

BTEC Level 3 Extended Diploma DDD in either Arts and Humanities or Sciences.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass Access to Art and Design, Computing or Media course with 45 credits at Level 3 and with Merit or higher in all units.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

www.brunel.ac.uk/courses
Check the Web for up-to-date course, entry criteria and fees information
Employability

This course has a large number of possible career outcomes. Applicants who have both creative ability and knowledge of technology and its creative potential are in ever-growing demand. The course will provide you with multiple skills developing your technological and creative abilities required for the industry.

Careers

Previous students have become information architects, motion graphics designers, user experience architects, web designers/developers and digital managers. They have gone on to work for companies such as Dare Digital, LBI, Lightmaker, Xerox, IBM, Sega, Hallmark and Reading Room.

Placements

If you opt for a sandwich course, you will have the added bonus of putting your academic study into practice. Some graduates are offered full-time graduate posts at the companies where they carried out their work placements. You have the opportunity to undertake high quality work placements within prestigious organisations such as Warner Bros, Xerox, Canon, Lightmaker, Snow Valley, and Hewlett Packard. The placement year is assessed and contributes to your degree.

Typical modules

- Creativity for Digital Media Design
- Digital Photography
- Digital Graphics
- Web Design
- Business for the Creative Industries
- Programming for Digital Media
- Introduction to Video Production
- Digital Design Theory
- Web Design and Development
- Interaction Design and Usability
- Time-Based Multimedia
- 3D Design and Animation
- Communication
- Design Practice
- Web Applications
- Interaction
- Major Project
- Digital Media Management
- Sound and Music Production for Mixed Media
- Databases for Multimedia Applications
- Motion Capture and Advanced 3D
- e-Business
- Emergent Multimedia Technologies
- Software Engineering
- Image in Motion
- Broadcast Technology
About the course

Electronics equipment and products are becoming a vital part of our daily lives, from MP3 players and mobile phones to state-of-the-art fibre optic communications systems. Computers, telecommunications systems and consumer electronics are advancing at a fast pace.

This is a traditional and broad-based course designed to produce well-rounded engineers with a high level of analytical and engineering design skills.

From calculators to supercomputers, from telephones to global satellite communications, from dynamos to the national grid, you will gain key knowledge and understanding.

You will have the opportunity to specialise in Communications Systems in your final year.

If you choose the MEng programme you can study for an additional fourth year, which will take your degree to Master’s standard.

Accreditation

All our BEng and MEng programmes are accredited by the Institution of Engineering and Technology (IET).

Teaching and assessment

You will be taught through various methods such as lectures, laboratory work, tutorials, workshops and seminars. There may also be guest speakers. You will receive one-to-one supervision in your final year project. Assessment is by a combination of exams, written assignments, practical and creative design assignments, laboratory work and individual and group presentations.

Employability

For the foreseeable future, the most significant growth will be in the development of reliable and efficient computer systems, and the unprecedented demand for engineers able to design computer systems is therefore set to continue. The growth...
of embedded electronic systems in all areas of our lives has created exciting employment prospects across all areas of industry and business.

**Careers**
The majority of our graduates move into research, development or manufacturing companies – a choice many make when accepting sponsorship from a company.

**Placements**
You have the opportunity to undertake work placements within prestigious organisations such as Intel, 3M, BP and Ultra Electronics. Increasingly, students are selecting placements with smaller companies to obtain a more flexible placement opportunity. The placement is assessed.

**Typical modules**
- Digital Systems and Microprocessors
- Design of Intelligent Systems
- Control Systems
- Multimedia Digital Signal Processing
- Advanced Digital Systems

**MEng**
- Innovation, Business and Enterprise for Engineers
- Major Group Project
- Embedded Systems Engineering
- Advanced Multimedia Processing
- Intelligent Signal Processing
- Data Communication
- Computer Networks
- Optical Satellite and Mobile Communications
- Advanced Digital Communications
- Advanced Mobile Systems
- Radio and Optical Communication Systems
Electronic and Computer Engineering BEng/MEng

**BEng ENTRY CRITERIA**

- **GCE A-level** ABB – BBB, including Maths and a Science or Engineering subject (General Studies and Critical Thinking not accepted).
- **IB Diploma** 31 points, including 5 in a Higher Level Maths and 5 in a Higher Level 5 Science or an Engineering subject.
- **BTEC Level 3 Extended Diploma** D’DD including Distinction in a Maths module and Distinction in either Electrical or Electronic Principles.
- For **BTEC Level 3 and A-level combinations** see the course web page.
- **Access to HE Diploma** Complete and pass Access to Engineering course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher. All Maths and Science units must be Distinctions at Level 3.
- In addition **5 GCSEs** or equivalent at Grade C or above, to include English and Maths, are required.

**MEng ENTRY CRITERIA**

- **GCE A-level** AAA, including Maths and a Science or Engineering subject (General Studies and Critical Thinking not accepted).
- **IB Diploma** 34 points, including 6 in Higher Level Maths and 6 in a Higher Level Science or an Engineering subject.
- **BTEC Level 3 Extended Diploma** D’D*D*, including Distinction in a Maths module and Distinction in either Electrical or Electronic Principles.
- For **BTEC Level 3 and A-level combinations** see the course web page.
- **Access to HE Diploma** courses are not accepted for the MEng entry. Access students should apply for the BEng in this subject. Those who achieve the progression requirements on our degree can transfer to the MEng at the end of Level 2.
- In addition **5 GCSEs** or equivalent at Grade C or above, to include English and Maths, are required.

**About the course**

Electronics equipment and products are becoming a vital part of our daily lives, from simple MP3 players, mobile phones and computers to highly sophisticated diagnostic equipment used in hospitals and state-of-the-art fibre optic communications systems.

Developed in response to the needs of industry, this degree will give you advanced level knowledge and skills in the design of complex electronic and microelectronic systems. We aim to produce graduates who are part of a high-tech elite – greatly sought-after professionals with specialist understanding and skills in microelectronics, but who also have a solid knowledge of electronic engineering as a whole. This will give you ultimate vision and flexibility in your future career.

If you choose the MEng programme you can study for an additional fourth year, which will take your degree to Master’s standard.

**Accreditation**

All our BEng and MEng programmes are accredited by the Institution of Engineering and Technology (IET).

**Teaching and assessment**

You will be taught through various methods such as lectures, laboratory work, tutorials, workshops and seminars. You will receive one-to-one supervision in your final year project. Assessment is by a combination of exams, written assignments, practical and creative design assignments, laboratory work and presentations.

**Employability**

For the foreseeable future, the most significant growth will be in the development of reliable and efficient computer systems. The demand for engineers who are able to design computer systems is therefore expected to continue. The growth of embedded electronic systems in all areas of our lives has created exciting employment prospects across all areas of industry and business.
I chose Brunel as it is well known for its excellence in Engineering, its facilities and fantastic career prospects

Patrick Diai

We have strong industrial links and formally liaise with industrial partners about appropriate course content and emerging trends

Careers
The majority of our graduates move into research, development or manufacturing companies – a choice many make when accepting sponsorship from a company – but opportunities exist in other professional spheres such as medicine, finance, management and the media. Recent graduates work for prestigious companies including the BBC, Virgin Airways, Opodo, Philips, Intel, Siemens and a variety of design companies.

Placements
The placement year is assessed and contributes to your degree. Students who complete the thick-sandwich course will be awarded their degree ‘with Professional Development’.

Typical modules
- Digital Systems and Microprocessors
- Devices and Circuits
- Electronic Engineering Mathematics
- Engineering Science, Systems and Society
- Electronic Engineering Workshop
- Problem Solving and Programming
- Computer Architecture and Interfacing
- Digital Systems Design and Reliability Engineering
- Electronic Systems
- Object Oriented Systems and Programming
- Signals and Systems
- Engineering Group Design Project
- Management
- Major Individual Project and Project Management
- Advanced Electronics
- Advanced Digital Systems
- Advanced Devices and Electronic Systems Design
- Software Engineering and Technology
- Design of Intelligent Systems
- Control Systems

MEng
- Innovation, Business and Enterprise for Engineers
- Embedded Systems Engineering
- Major Group Project
- Data Communication
- Computer Networks
- Digital VLSI Design
- Network Design and Management
- Advanced Multimedia Processing
- Intelligent Signal Processing
- Optical Satellite and Mobile Communications
About the course

Electronics equipment and products are becoming a vital part of our daily lives, from simple MP3 players, mobile phones and computers to highly sophisticated diagnostic equipment used in hospitals and state-of-the-art fibre optic communications systems.

Engineers, technologists and designers are the architects and implementers of this technological revolution and are in great demand throughout industry, commerce and the public sector. We aim to produce well-educated, imaginative and professionally-trained engineers and designers who can meet the challenge of rapid technological development.

If you choose the MEng programme you can study for an additional fourth year, taking your degree to Master's standard.

BEng ENTRY CRITERIA

GCE A-level ABB – BBB, including Maths and a Science or Engineering subject (General Studies and Critical Thinking not accepted).

IB Diploma 31 points, including 5 in Higher Level Maths and 5 in a Higher Level Science or an Engineering subject.

BTEC Level 3 Extended Diploma D/DD including Distinction in a Maths module and Distinction in either Electrical or Electronic Principles.

Access to HE Diploma Complete and pass Access to Engineering course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher. All Maths and Science units must be Distinctions at Level 3.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

MEng ENTRY CRITERIA

GCE A-level AAA, including Maths and a Science or Engineering subject (General Studies and Critical Thinking not accepted).

IB Diploma 34 points, including 6 in Higher Level Maths and 6 in a Higher Level Science or an Engineering subject.

BTEC Level 3 Extended Diploma D*D*D*, including Distinction in a Maths module and Distinction in either Electrical or Electronic Principles.

Access to HE Diploma courses are not accepted for the MEng entry. Access students should apply for the BEng in this subject. Those who achieve the progression requirements on our degree can transfer to the MEng at the end of Level 2.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

Teaching and assessment

You will be taught through various methods such as lectures, laboratory work, tutorials, workshops and seminars. There may also be guest speakers from prominent organisations. You will receive one-to-one supervision in your final year project. Assessment is by a combination of exams, written assignments, practical and creative design assignments, laboratory work and individual and group presentations.

Employability

Graduates with appropriate training in this discipline are likely to have excellent opportunities in diverse fields such as finance, leisure, media and marketing as well as in engineering and the computer industries.

Careers

The majority of our graduates move into research, development or manufacturing companies – a choice many make when accepting sponsorship from a company –

For Engineering with an Integrated Foundation Year entry see page 136.

UCAS codes

Electronic and Electrical Engineering BEng

H600 3 years  
H602 4 years  

Electronic and Electrical Engineering MEng

H601 4 years  
H603 5 years  

= full-time  
= thick-sandwich
but opportunities do exist in most other professional spheres such as medicine, finance, management and the media. Recent graduates have gone on to work for prestigious companies including the BBC, Virgin Airways, Siemens and a variety of design companies.

Placements
The industrial placement year is assessed and contributes to your degree. Students who complete the thick-sandwich course will be awarded their degree ‘with Professional Development’.

Typical modules
- Digital Systems and Microprocessors
- Devices and Circuits
- Electronic Engineering Workshop
- Problem Solving and Programming
- Electronic Engineering Mathematics
- Engineering Science, Systems and Society
- Communication
- Digital Systems Design and Reliability Engineering
- Electrical Engineering and Sustainability
- Electronic Systems
- Signals and Systems
- Engineering Group Design Project
- Management
- Major Individual Project and Project Management
- Advanced Electronics
- Advanced Devices and Electronic System Design
- Design of Intelligent Systems
- Digital Communications Systems
- Control Systems
- Power Electronics and Systems
- Multimedia Digital Signal Processing
- Advanced Digital Systems
- Renewable Energy in Power Systems
- MEng
  - Innovation, Business and Enterprise for Engineers
  - Digital VLSI Design
  - Major Group Project
  - Data Communication
  - DSP for Communications
  - Embedded Systems Engineering
  - Intelligent Signal Processing
  - Optical Satellite and Mobile Communications
  - Power Electronics and FACTS
  - Power System Stability and Control
  - Radio and Optical Communication Systems
  - Real-Time Digital Signal Processing Systems

We have strong industrial links and formally liaise with industrial partners about appropriate course content and emerging trends

My placement experience really helped me when completing applications, and I have secured a graduate job with Atkins.

Gemma Townsend
Electrical Engineering with Renewable Energy Systems  MEng

About the course

Renewable energy and the reduction of carbon emissions are at the top of the global agenda. This programme addresses the fundamentals of renewable energy and how solar, wind, wave and other such energy sources can be efficiently integrated into practical power systems.

The course will develop leadership, innovation and creativity as well as design, analytical and transferable skills, to enable graduates to follow successful engineering careers, and to aspire to senior managerial roles at the forefront of the rapidly expanding technological industries.

Teaching and assessment

You will be taught through various methods such as lectures, laboratory work, tutorials, workshops and seminars. There may also be guest speakers. You will receive one-to-one supervision in your final year project. Assessment is by a combination of exams, written assignments, practical and creative design assignments, laboratory work and individual and group presentations.

Employability

The course provides students with the design, analytical and transferable skills required to lead the dynamic and rapidly expanding technological industries. Graduates are likely to have excellent opportunities in diverse fields.

Accreditation

All our MEng Programmes are accredited by the Institution of Engineering and Technology (IET).

MEng ENTRY CRITERIA

GCE A-level AAA, including Maths and a Science or Engineering subject (General Studies and Critical Thinking not accepted).

IB Diploma 34 points, including 6 in Higher Level Maths and 6 in a Higher Level Science or an Engineering subject.

BTEC Level 3 Extended Diploma D*D*D*, including Distinction in a Maths module and Distinction in either Electrical or Electronic Principles.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma courses are not accepted for the MEng entry. Access students should apply for the BEng in Electronic and Electrical Engineering. Those who achieve the progression requirements on our degree can transfer to the MEng at the end of Level 2.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

UCAS codes

Electrical Engineering with Renewable Energy Systems MEng

H6H2 4 years  
H6HF 5 years  

= full-time  
THICK = thick-sandwich
Careers
Our students have excellent employment prospects. Recent graduates have gone on to work for prestigious companies including the BBC, Virgin Airways, Opodo, Philips, Siemens and a variety of design companies.

Placements
If you opt for a sandwich course, you will put your academic study into practice. Some graduates are offered full-time graduate posts at the companies where they carried out their work placements. The industrial placement year is assessed and contributes to your degree.

Typical modules
- Digital Systems and Microprocessors
- Devices and Circuits
- Electronic Engineering Workshop
- Problem Solving and Programming
- Electronic Engineering Mathematics
- Engineering Science, Systems and Society
- Communication
- Digital Systems Design and Reliability Engineering
- Electrical Engineering and Sustainability
- Electronic Systems
- Signals and Systems
- Management
- Major Individual Project and Project Management
- Advanced Devices and Electronic Systems Design
- Control Systems
- Power Electronics and Systems
- Renewable Energy in Power Systems
- Major Group Project
- Innovation, Business and Enterprise for Engineers
- Energy Economics and Power
- Power Electronics and FACTS
- Power System Stability and Control
- Sustainable Power Generation
- Power System Analysis and Security
- Power System Operation and Management

We have strong industrial links and formally liaise with industrial partners about appropriate course content and emerging trends.
About the course

The TV and media industries are going through a period of rapid change with the digital revolution changing the way that TV programmes are recorded, produced, screened and viewed. The rapid growth of interactive and 3D TV has resulted in the need for a new type of creative technologist. Well-educated, imaginative professionals are required who are fluent in the creative use of emerging digital media technologies and tools. This includes advanced titling artists, motion graphics designers, visual effects experts and interactive technologists for Film and Video, post-production, and virtual production environments.

Well-educated, imaginative professionals are required who are fluent in the creative use of emerging digital media technologies and tools. This includes advanced titling artists, motion graphics designers, visual effects experts and interactive technologists for Film and Video, post-production, and virtual production environments.

The course aims to produce creative designers with the technological skill to both produce short duration (typically less than two minutes), high quality visual media, and to create post-production visual effects and motion graphics solutions of professional standard.

The course is designed to develop creative design, production, implementation, and post-production skills and processes, needed for the various phases of modern digital TV, video and film making. There are few other programmes in the UK that develop both the technological and creative skills required for the industry.

Teaching and assessment

You will be taught through various methods such as lectures, studios, workshops and tutorials. You will receive one-to-one supervision in your final year project. There may also be guest speakers, research seminars and external site visits. Assessment is by a combination of essays, projects, presentations, audiovisual production and examinations.
Placements
You have the opportunity to undertake high quality work placements within prestigious organisations such as BSkyB, Stream UK, JVC, and Dolby Laboratories. The industrial placement year is assessed and contributes to your degree.

Employability
Applicants who have both creative ability and knowledge of technology and its creative potential are in ever-growing demand. The course will provide you with multiple skills and aptitudes, developing your technological and creative abilities required for the industry.

Careers
We take pride in the success of our students. This, together with acknowledged high quality teaching and resources, results in an excellent record of employment amongst our graduates. Our links with industry mean that graduates are well-placed to enter the dynamic world of digital TV.

Typical modules
• Creativity for Digital Media Design
• Digital Photography
• Digital Graphics
• Web Design
• Business for the Creative Industries
• Programming for Digital Media
• Introduction to Video Production
• Digital Design Theory
• Introduction to Post Production
• CGI Foundation for Visual Effects
• Acquisition for Visual Effects
• Motion Graphics
• Applied Video Aesthetics
• VFX Compositing
• 3D Design and Animation
• Communication
• Sound and Music Production for Broadcast
• Major Project
• Digital Media Management
• Advanced Motion Graphics
• Advanced Compositing
• Motion Capture and Advanced 3D
• Image in Motion
• Broadcast Technology
About the course

You will study texts from the early modern period to the contemporary era, learning about subjects ranging from Shakespearean drama, Romantic poetry and 19th century classics such as Jane Eyre, to postmodern fiction and graphic novels, such as Ian McEwan’s The Child in Time and Alan Moore’s V for Vendetta.

The course is designed to develop your capacity for critical thinking and evaluative writing. Introductory modules, combining lectures and small seminar groups, first teach you how to question and discuss what you read and then give you the skills to communicate your new understanding in fluent written English. These abilities are progressively enhanced throughout the programme through the development of research skills as well as the guided exploration of theoretical and conceptual approaches such as poststructuralism and postcolonialism, with the aim of promoting the ability for evidence-based argumentation and independent critical thinking.

We have introduced an integrated first-year programme for English that enables students to build up their research, study and writing skills across modules related to Brunel’s London location and its cultural legacies by studying texts such as George Orwell’s Keep the Aspidistra Flying and Zadie Smith’s NW.

Brunel English Graduates emerge with confidence in their own ability to comprehend, evaluate and communicate ideas about society and culture.

Teaching and assessment

You will be taught through various methods such as lectures, tutorials, workshops and seminars. You will...
receive personal tutoring at level one as well as one-to-one supervision for your final year project.

There is a wide range of assessment methods including coursework, individual and group projects, oral presentations, seminar assessment, practical work and written examinations.

**Employability**

English is particularly good at developing transferable skills. The degree promotes imagination, independence of thought and intellectual flexibility. Emphasis is placed on the acquisition of knowledge and analytical skills. You will learn to manage your own learning and develop personal and collaborative communication skills. We will enable you to communicate your experience to employers as well as find employment opportunities through our three-year employability stream, including sessions on how to write an effective CV and cover letter as well as how to use job search and networking tools.

**Careers**

Graduates may enter one of the professions associated with English, such as journalism, publishing, advertising, teaching, the civil service or the media, but our students fit just as easily into many other career environments. We help you to develop career options based on interests and skills.

**Typical modules**

- Reading Resilience: Reading Lives
- Learning London
- Texts, Contexts, Intertexts
- The 19th Century Novel
- The Women's Movement
- Postcolonial Writing
- Modernism
- Romanticism and Revolution
- British Science Fiction and Fantasy
- Critical Perspectives: Historical Perspectives
- Critical Perspectives: Contemporary Perspectives
- Victorian Literature
- Writing Ireland
- Post-War and Late Twentieth Century Literature, 1945-2001
- Post-Millennial Fiction, 2000 to the Present
- The Muslim World in Early Modern English Literature

**Every module I have taken has struck a perfect balance between thoroughly enjoyable, intellectually fascinating, and challenging**

Samuel Matton
About the course

This is an innovative and flexible course which enables you to explore a range of film and television forms and the social and industrial contexts in which they are produced and consumed. You will develop the critical and technological vocabularies and theoretical frameworks necessary to analyse film and television texts and contexts.

We aim to provide you with the conceptual and theoretical skills necessary to engage with film and television products, and to understand how they work at aesthetic, social-cultural and institutional levels. From Hong Kong to Hollywood and from Science Fiction to Documentary, Film and TV at Brunel examines a wide range of recent and contemporary production for big screen and small. Modules focus on both mainstream and alternative practices.

Our facilities – cameras, editing suites with Avid and Final Cut Pro software programmes and dedicated teaching space, all with excellent technical support – mean that up to 40% of your programme can come from practical modules. The bringing together of theory and practice will encourage you to develop critical perspectives on the creation of meaning and to reflect analytically on your practical work.

All students complete a dissertation/project under the supervision of a member of the teaching team. This may take the form of a practice-based project with an accompanying analysis or a written piece on a subject of your choice.

Teaching and assessment

You will be taught using a combination of lectures, seminars, class screenings, workshops and tutorials. Assessment is by a variety of methods, including essays, projects, presentations, audiovisual production and ‘seen’ exams.

BA ENTRY CRITERIA

GCE A-level BBC.
IB Diploma 29 points.
BTEC Level 3 Extended Diploma DDD in a related subject.
For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3 and 15 credits at Level 2 with Merits in all units.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

UCAS codes

Film and Television Studies BA W620 3 years 4.5-6 years
Games Design and Film and Television Studies BA WW26 3 years 4.5-6 years
Theatre and Film and Television Studies BA WW46 3 years 4.5-6 years
English and Film and Television Studies BA Q3W6 3 years 4.5-6 years

BBC

www.brunel.ac.uk/courses
Check the Web for up-to-date course, entry criteria and fees information

FT = full-time
PT = part-time
Placements
The programme offers work placements that can provide you with vital experience and contacts in a wide range of film and other media contexts from production, distribution and exhibition companies to activities such as public relations and marketing.

Employability
We pride ourselves on producing graduates who are well equipped for the demands of a competitive job market. All final-year students have the option of taking a work experience module in which they are encouraged to think about how they might deploy the skills they have acquired in a wide range of contexts. Over the last year, students have completed placements with a number of high-profile organisations including the Pinewood Group (film and television production facilities), Journeyman Pictures (film distribution), WaterAid (international development charity) and BalletBoyz (award-winning dance and film company).

Careers
Our graduates have taken up posts in the film and television industries and in other fields such as journalism, publishing, research, critical writing, arts administration and programming. Our programme also provides a good basis for postgraduate study and the pursuit of higher qualifications in both theoretical and practical areas.

Typical modules
- Film Style
- Film Theory and Practice
- Critical Methodologies
- Television Genres
- Formations: British Screen Culture and Society, 1979 – present
- Video Production
- TV: Forms and Meanings
- Science Fictions
- New Hollywood Cinema
- The Western
- European Cinema
- Theorising Celebrity
- Screenwriting
- Project (Practical or theory-based)
- Documentary
- Gender and Sexuality
- Political Cinema
- Alternative Film and Video Production
- Horror
- American Independent Cinema
- Media Freedom and Regulation
- Film Production and Distribution
- Hong Kong Cinema
- Work Experience

Students have access to a range of HD cameras including Canon DSLRs, Canon XF100 and Sony Z7. We also have 17 (and counting) dedicated edit suites plus computer labs loaded with up to date post-production software. We are an accredited training facility for Final Cut Pro 10.

My three years at Brunel were fantastic... When I graduated I was lucky enough to land a position at the BBC

Kristy Myrie
About the course

This course is aimed at students who want to develop a comprehensive understanding of the factors which shape the games industry and the techniques and principles used in the design of games. You will have the opportunity to design and prototype your own games, as well as analyse and think more deeply about how games work. You'll meet key figures from the UK games industry and pitch your ideas to them.

No 3D modelling, programming or computer science background is necessary, just a passion for games and desire to be involved in creating them. By the end of the course you'll have a range of skills sought-after by the games industry for roles including game design, game production and game analysis, as well as transferable skills relevant to broader fields.

Theory modules will develop your understanding of the cultural and social significance of games and their historical contexts.

Design modules will aid your ability to produce creative, realisable strategies in relation to set briefs.

Application modules will provide you with knowledge of the communication skills used in the games industry, including presentation and prototyping.

You can also study asset and story creation to focus on your game’s looks and narrative.
Students have access to a dedicated and upgraded games lab which houses 25 high-spec gaming PCs and a range of gaming consoles.

The Games courses at Brunel are sponsored by industry affiliates such as Eidos, Kuju, Lionhead Studios, Edge magazine, Media Tonic and Supermassive Games. We are highly regarded by many games studios and they are regularly represented at Brunel as guest speakers.

Absolutely brilliant... I am truly excited to attend every lecture

Katijah Wellings Thomas

Teaching and assessment
Lectures, workshops, seminars, play sessions and tutorials will provide you with different ways of engaging with relevant materials. Use will be made of the programme's online forum to aid the development of knowledge and solicit discussion.

Practical work is assessed by a range of projects, some of which are carried out in groups. Written essays require evaluation of your own work using a range of theoretical and critical tools.

Employability
This programme is designed to sharpen creative and analytical skills and develop confidence in working in teams and in problem-solving techniques. You will acquire core transferable skills of effective communication, leadership, self-management, initiative and responsibility.

Careers
This course will provide you with the communication, critical thinking and production skills suitable for the role of games designer in the games industry. There are no official placements on this programme, but industry guest speakers have been known to offer internships or other work opportunities on an ad hoc basis.

Typical modules
- Creative Computing
- Methods for, and practice of, communicating design concepts and ideas
- Asset and Story Creation: image manipulation, asset creation and 3D modelling, storyboarding and optional animation
- Prototyping game designs and understanding the industry
- Game Mechanics
- Design, prototype then pitch your ideas to games industry professionals
- Theory Project: Investigate an issue or debate
Specialist Community Public Health Nursing BSc

About the course

This Statutory Body approved course is designed for those with initial registration who wish to become specialist community public health nurses in one of three areas of practice:

• Health Visiting
• Occupational Health Nursing
• School Nursing

You will gain Specialist Community Public Health Nursing Registration with the Nursing and Midwifery Council (NMC).

Health Visiting develops practitioners who are proactive and innovative in the promotion of health and the prevention of ill health at the individual, group and community level.

Occupational Health Nursing equips you to function competently in the specialist area of Occupational Health. This involves responsibility for health and safety at work, risk assessment, management of occupational disease and the promotion of physical and psychological health among the workforce.

School Nursing will prepare you to lead a school nursing team of variable skill mix, to promote school health and meet the health-related needs of children and adolescents at school and their families and carers.

BSc ENTRY CRITERIA

All applicants should have active registration on Nursing or Midwifery (part one or two) NMC register.

Two satisfactory references of which one should be an academic reference.

A Diploma of Higher Education or the equivalent of 120 Level 2 credits.

All applicants are required to be interviewed to ascertain their professional readiness to undertake the programme.

Disclosure and Barring Service: All students undertaking this degree will be legally required to undertake a criminal records check with the Disclosure and Barring Service (DBS).

Formal offers will only be made following attendance at a selection day.

Applications for Occupational Health Nursing should apply directly to Brunel University London on the course pages.

Applications for Health Visiting/School Nursing should be made via London Deanery.

www.londondeanery.ac.uk

www.brunel.ac.uk/courses

Check the Web for up-to-date course, entry criteria and fees information.
Teaching and assessment
We use many innovative teaching and learning methods to balance professional training with academic excellence. We welcome visiting professionals to contribute their expertise to the programme.

You will be assessed throughout the year using a variety of methods including essays, projects, examinations and practice assessments.

Employability
Half of the course involves supervised placements within the chosen area of specialist practice. These are generally arranged within the NHS and involve experienced practice teachers who attend study days at Brunel. Occupational Health Nursing students will gain practical experience within occupational settings in either the public or private sector.

Careers
Around 95% of graduates secure employment in their chosen specialist field.

Typical modules
• Specialist Community Public Health Nursing Practice
• Professional Perspectives in Specialist Community Public Health Nursing
• Evidence Based Practice for Public Health
• Promoting Public Health
• Management of Public Health Practice
• Consolidated Practice
About the course

This programme offers an ideal launch-pod for anyone hoping to embark on a career in journalism in the digital age. We will be delivering essential National Council for the Training of Journalists (NCTJ) training alongside broader contextual and critical elements to ensure you are best placed to navigate your way through this dynamic and demanding craft.

The programme aims to provide you with a critical understanding of the ethical, social and production constraints under which journalistic practice operates. We offer rigorous training in news writing, Teeline shorthand, public affairs and law, plus a work placement. You will learn how to edit and package for a range of journalism formats with an emphasis on cross-media platforms and hand-held technology. This course also allows for a deeper interrogation of ethical, historical and theoretical debates.

Accreditation

The course is accredited by the National Council for the Training of Journalists (NCTJ).

Teaching and assessment

You will learn in our state-of-the-art multi-platform digital newsroom with broadcast facilities, using industry standard hardware and software. You will be taught by experienced senior journalists and will

BA ENTRY CRITERIA

GCE A-level ABB – BBB. Typical offer ABB, including a B in one of the following subjects: English, History, Economics, Sociology, Politics, Psychology, Geography, Business Studies, Philosophy, Law or Religious Studies indicating critical analysis and communication skills.

IB Diploma 31 points, including 5 in Higher level subject listed at A-level.

BTEC Level 3 Extended Diploma DDD in Media and Media Production.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

Formal offers will only be made following attendance at a selection day.

UCAS codes

Journalism BA (NCTJ Accredited)

P500 3 years

= full-time

www.brunel.ac.uk/courses

Check the Web for up-to-date course, entry criteria and fees information

JOURNALISM BA

Journalism

BA ENTRY CRITERIA

ABB-BBB

GCE A-level ABB – BBB. Typical offer ABB, including a B in one of the following subjects: English, History, Economics, Sociology, Politics, Psychology, Geography, Business Studies, Philosophy, Law or Religious Studies indicating critical analysis and communication skills.

IB Diploma 31 points, including 5 in Higher level subject listed at A-level.

BTEC Level 3 Extended Diploma DDD in Media and Media Production.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

Formal offers will only be made following attendance at a selection day.

UCAS codes

Journalism BA (NCTJ Accredited)

P500 3 years

= full-time

www.brunel.ac.uk/courses

Check the Web for up-to-date course, entry criteria and fees information

JOURNALISM BA

Journalism
Accreditation means that we meet the news industry’s tough requirements for training journalists

Paul Lashmar, Course Leader

The NCTJ-accredited course at Brunel helped to give me an enormous head start in a ruthlessly competitive industry.

Aaron Brown

Journalism Matters! is a programme of guest speakers which gives our students the opportunity to network with top names from the industry. We have had speakers from Cosmopolitan, the Guardian, BBC, Sky News, Daily Express, C4 News and more.

Contact Paul Lashmar
journalism-admissions@brunel.ac.uk
+44 (0)1895 265502

Employability
Our programme is designed to sharpen creative and analytical skills and develop confidence in working in teams and in problem-solving. This course will enable the acquisition of core transferable skills of IT, communication, leadership, self-management and interpersonal skills to the standards required by journalism and media employers. We are mindful of the shortage of production journalists and will tailor part of the programme in that direction to further enhance students’ employability.

Careers
Aside from careers in journalism, employment in other sectors such as communications, public relations, policy, production, business and the non-governmental and charity sectors is also highly probable due to the transferable nature of the skills and knowledge gained. Many of our graduates will be seeking first jobs in journalism, primarily in the local and regional sector in print/online or broadcasting. The programme will also cater for candidates seeking to enter the burgeoning periodical sector.

Typical modules
- Professionalism and Ethics
- News Writing
- News Reporting and Production
- History of Journalism
- Audio Journalism
- Data Gathering for Journalists (including Teeline shorthand)
- Law and the Media
- UK, European and Global Institutions
- Video Journalism
- Reporting UK Local Government
- Magazine Journalism
- Theories of Journalism
- Online Entrepreneurialism
- Crime, Courts and the Media
- Journalism Live Project
- Dissertation

be assessed in a range of ways including practical work, essays, presentations, exams and reflective reports.
About the course

The Brunel LLB is a qualifying law degree featuring core modules that satisfy the requirements of the Law Society and the Bar Council. We teach three comprehensive law degrees. Each is designed to ensure that our students leave us as confident graduates ready to meet the challenges of further study or professional life. Students who opt for the sandwich placement will spend a year working in industry, gaining valuable experience that will greatly enhance employability.

Final year students are able to tailor their studies to the areas of law they wish to explore further.

Students will be required to confront contemporary, real-world legal challenges and to develop skills of analysis and critical thinking. We provide students with the opportunities to cultivate the skills required to succeed in 21st century legal practice.

Accreditation

The Chartered Institute of Arbitrators have granted Brunel Law School the status of Recognised Course Provider for the LLB Law with International Arbitration and Commercial Law. Subject to the successful completion of level 1, and the module International Sales Law and Arbitration, graduates have the opportunity to become members of the Chartered Institute of Arbitrators and will not be required to study additional courses to qualify as a MCIArb.

Teaching and assessment

You will be taught using a variety of methods including lectures, seminars, one-to-one supervision and private study. The most common assessment methods are coursework and examinations. In addition, at level 3 students undertake a compulsory dissertation.
Employability
We offer short courses in client interviewing, advocacy and other professional skills, which make students more attractive to potential employers. The Law School is a strong advocate of developing its students’ legal skills and knowledge, and actively encourages extra-curricular activity to augment learning with participation in mooting, debating, and participation in specialist seminars. In addition, the Law Clinic gives students the opportunity to carry out pro bono work, which gives them real work experience, enhancing skills such as legal research and client interviewing.

Careers
You may take advantage of our professional exemptions and train to become a barrister or solicitor, but our degree could take you into areas other than law, including mediation, consultancy, industry, commerce, public administration, the social services, management and humanitarian aid. Recent graduates have found employment in areas such as case work at a large consultancy firm, in business development at a leading regional law firm and university administration.

Placements
A placement allows you to experience working in a legal environment before making a long-term career decision. Most placements are with firms of solicitors; however there are also opportunities within law centres, in the legal departments of commercial organisations and local councils.

Typical modules
- Contract Law
- Criminal Law
- Legal Skills and Method
- Public Law
- The Criminal Justice System
- European Union Law
- The Civil Justice System
- Land Law
- Tort Law
- Trusts
- Dissertation
- Banking Law
- Children and the Law
- Company Law
- Competition Law
- Consumer Law
- Criminology
- Employment Law
- Evidence
- Family Law
- Intellectual Property Law
- International Human Rights
- International Law
- International Sales Law and Arbitration
- Jurisprudence
- Sentencing and Penology
- Taxation of Income
About the course

This course is for you if you are a committed Maths student interested in a career in the fast moving world of finance or commerce. You will develop high level study skills that will be hugely valuable whatever career path you follow after graduation.

This course covers several application areas – finance, statistics, operational research (how Maths can be applied to commercial and industrial problems) and numerical analysis. It also covers the workings of financial markets, and corporate investment and finance. You will acquire the skills needed to develop mathematical and statistical knowledge, as well as a good awareness of financial institutions, markets and their workings.

MMath students study for a further year, bringing their degree up to Master’s level.

Teaching and assessment

We use a range of approaches to help you engage effectively with the subject. Teaching methods include lectures, tutorials and one-to-one supervision for major projects. Assessment is through exams and coursework.

Employability

The recent combination of financial deregulation, increased globalisation and technological advancement has led to a huge increase in the nature and volume of financial derivatives contracts traded around the world. This has led to a massive demand within financial institutions for mathematically trained graduates with an awareness of markets and their workings.
Careers
You will possess key skills that are highly sought-after in any industry that uses modelling, simulation, cryptography, forecasting, statistics, risk analysis and probability. A Maths degree is also valued highly in finance, medicine, design, science, the Civil Service, business, IT and Engineering. Our graduates now work at UBS, Aviva, Santander, Lloyd’s Banking Group plc and Royal Bank of Scotland.

Placements
You will have the opportunity to gain invaluable work experience alongside experts in industry, the public sector and commerce – both in the UK or overseas – including at BUPA, Debenhams, HSBC, IBM, Thomson Reuters and Virgin Trains.

Typical modules
- Linear Algebra
- Calculus and Numerical Methods
- Discrete Mathematics, Probability and Statistics
- Financial Markets
- Financial Accounting
- Multivariable Calculus, Analysis and Numerical Methods
- Statistics and Probability
- Graph Theory
- Operational Research
- Computing Projects
- Elements of Investment Science
- Programming and Software Design for Finance
- Major Project
- Stochastic Models

- Risk and Optimisation in Finance
- Mathematical Finance
- Statistics
- Ordinary and Partial Differential Equations
- Numerical Methods for Differential Equations
- Advanced Project
- Risk, Simulation and Decision Analysis
- Variational Methods for Partial Differential Equations
- Advanced Mathematical Finance
- Stochastic PDEs and Ito’s Calculus
- Risk Management and Regulation

Mathematics rated ‘Top 5 in London for overall student satisfaction’ (NSS 2014)

Scholarships worth £1,000 per year are available

I am hoping to go into a career in investment banking, so I will be doing a placement year

Oladosu Anigiobi

READ MORE
About the course

This is a broad-based course that aims to develop skills that you can use in a wide range of areas. This course aims to equip you with a deep understanding and versatility in applying mathematical knowledge to scientific, technological, business and other areas.

You will study many aspects of pure and applied Mathematics, together with general concepts of mathematical modelling. When it comes to the application of mathematics, we cover finance, statistics, operational research (how maths can be applied to commercial and industrial problems), numerical analysis (the approximate solution of very hard problems) and mechanics.

In the final year you will be able to study those areas of mathematics that particularly appeal to you, or you can maintain a broad approach.

The University has recently secured a £5 million government grant to support a brand new STEM (Science, Technology, Engineering and Mathematics) centre, which will open in January 2016. The centre will help students in their learning across all STEM subject areas and includes a dedicated Maths and Statistics cafe – an informal space, where you can receive feedback, advice and support from your lecturers and work together with other students.

Teaching and assessment

We use a range of approaches including lectures, seminars and one-to-one supervision for your project. You will be assessed using a combination of exams and coursework.

Employability

As a Brunel Maths graduate you will enjoy excellent employment prospects. Our combination of work experience and up-to-date teaching means that you will be well-equipped to follow
the career you want. You will possess key skills that are highly sought after by any industry that uses modelling, simulation, cryptography, forecasting, statistics, risk analysis and probability.

**Careers**
A Maths degree is valued highly in finance, medicine, design, Civil Service, Business, IT and engineering, among others. Past graduates have gone on to work for companies including IBM, Kodak, PricewaterhouseCoopers, Bank of New York, British Aerospace, Ernst and Young, Virgin Trains, BT and the BBC.

**Placements**
You will have the opportunity to gain invaluable work experience alongside experts in industry, the public sector and commerce – both in the UK or overseas. Students secure placements at companies such as AXA, Intel, Orange, Unilever and Walt Disney.

**Typical modules**
- Linear Algebra
- Calculus and Numerical Methods
- Geometry and Applications
- Computing Projects and Mechanics
- Discrete Mathematics, Probability and Statistics
- Multivariable Calculus and Numerical Methods
- Statistics and Probability
- Graph Theory
- Operational Research
- Computing Projects
- Algebra and Discrete Mathematics
- Vector Calculus and Applications
- Analysis
- Major Project
- Statistics
- Numerical Methods for Differential Equations
- Complex Variable Methods and Applications
- Risk and Optimisation in Finance
- Ordinary and Partial Differential Equations
- Encryption and Data Compression
- Stochastic Models

**MMath**
- Advanced Project
- Variational Methods for Partial Differential Equations
- Mathematical Finance
- Fluid Mechanics and Waves
- Mathematical Statistics
- Combinatorics
- Analysis

**Scholarships worth £1,000 per year are available**

**Contact Dr D Roman**
maths.admissions@brunel.ac.uk
+44 (0)1895 265980

**What appealed to me most was how the university offered (and encouraged) students to do a professional placement year.**

Andy Li

**Mathematics rated ‘Top 5 in London for overall student satisfaction’ [NSS 2014]**

**Mathematics rated ‘Top 5 in London for overall student satisfaction’ [NSS 2014]**

**Scholarships worth £1,000 per year are available**

<table>
<thead>
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<td>• Analysis</td>
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<tr>
<td>• Graph Theory</td>
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</tbody>
</table>
About the course
As a Mathematics student you will develop an outlook and high level study skills that will be hugely valuable whatever career path you follow. You will acquire skills necessary to implement mathematical algorithms in modern programming languages.

The course is wide-ranging and covers several application areas including finance, statistics, operational research (how Maths can be applied to commercial and industrial problems), numerical analysis and mechanics. You will develop computer-oriented solutions to important mathematical problems that arise in business and industry, such as investment finance, telecommunications and engineering.

The computing component covers object-oriented programming and software design, and is supported by a significant amount of project work. The mathematics element is wide-ranging, and covers aspects of modern algebra that are related to computer science. Although theory is important, we place emphasis on best practice and real world applications.

Teaching and assessment
Teaching methods include lectures, seminars and one-to-one supervision for your final project. You will be assessed using a combination of exams and coursework.

Employability
Maybe you want to pursue a career that specifically uses your mathematical, statistical or computing skills? Or perhaps you’d prefer a more general career – such
as management or consultancy? Either way you will possess key skills that are highly sought after by business – in fact any industry that uses modelling, simulation, cryptography, forecasting, statistics, risk analysis and probability.

Placements
You will have the opportunity to gain invaluable work experience alongside experts in industry, the public sector and commerce – both in the UK or overseas – including accountancy, aviation, banking, defence, finance, IT and management.

Careers
Our combination of work experience and up-to-date teaching means that you will be well-equipped to follow the career you want after graduation.

Areas where a Maths degree is valued highly include finance, medicine, design, science, engineering, business, IT and the Civil Service.

Typical modules
- Linear Algebra
- Calculus and Numerical Methods
- Discrete Mathematics, Probability and Statistics
- Introductory Programming
- Logic and Computation
- Multivariable Calculus, Analysis and Numerical Methods
- Statistics and Probability
- Graph Theory
- Operational Research
- Computing Projects
- Software Development and Management
- Algorithms and their Applications
- Major Project
- Encryption and Data Compression
- Software Engineering
- Statistics
- Numerical Methods for Differential Equations
- Risk and Optimisation in Finance
- Ordinary and Partial Differential Equations
- Stochastic Models
- Artificial Intelligence

Mathematics rated ‘Top 5 in London for overall student satisfaction’ (NSS 2014)

Scholarships worth £1,000 per year are available

My placement with the Ministry of Defence helped to put into good use all the theoretical knowledge I acquired on my degree. It also gave me the chance to explore and learn new skills as well as understand what is expected of graduates.

Tina Vida

Contact Dr D Roman
+44 (0)1895 26580
maths.admissions@brunel.ac.uk
About the course

As a Mathematics student you will develop high level skills that will be hugely valuable whatever career path you follow. This course is for students who are fascinated by both Mathematics and the world of business. We will equip you with the skills and techniques you will need to develop mathematical and statistical knowledge as well as a sound grounding in key business and management issues.

We place special emphasis on statistics and operational research as these areas are especially relevant to management theory.

Teaching and assessment

We use a range of approaches including lectures, seminars and one-to-one supervision for your final project. You will be assessed using a combination of exams and coursework.

Employability

You could pursue a career that specifically uses your mathematical or statistical skills or follow a more general career such as management or consultancy as you will possess key skills that are highly sought after by business – in fact any industry that uses modelling, simulation, cryptography, forecasting, statistics, risk analysis and probability.

Careers

Maths degrees are highly-valued in areas such as finance, design, engineering, IT and business. You will be well-
Mathematics rated ‘Top 5 in London for overall student satisfaction’ (NSS 2014)

Scholarships worth £1,000 per year are available

equipped to follow the career you want. Graduates have gone on to work for Accenture, Rank Xerox, Bank of New York, British Aerospace, Merrill Lynch, Ernst and Young, BT and the BBC.

Placements
You will have the opportunity to gain invaluable work experience alongside experts in industry, the public sector and commerce – both in the UK or overseas.

Typical modules
- Linear Algebra
- Calculus and Numerical Methods
- Discrete Mathematics, Probability and Statistics
- Organisational Behaviour and Analysis
- Principles and Practice of Marketing
- Accounting
- Multivariable Calculus, Analysis and Numerical Methods
- Statistics and Probability
- Graph Theory
- Operational Research
- Computing Projects
- Critical Perspectives in Management
- Human Resources Management and its International Dimension
- Managing Change and Creativity in Organisations
- Management Accounting – Planning and Control
- Major Project
- Risk and Optimisation in Finance
- Statistics
- Numerical Methods for Differential Equations
- Encryption and Data Compression
- Ordinary and Partial Differential Equations
- Stochastic Models
- Entrepreneurship and Small Business Ventures
- Gender and Organisations
- Strategic Management
- Strategic Financial Management
- Innovation and Knowledge Management
- Business Ethics, Environmental Sustainability and Governance
Aerospace Engineering BEng/MEng

About the course

This degree provides a rigorous and traditional academic education coupled with a well-developed appreciation of the highly technical nature of the aerospace industry. Subjects that will be studied include analytical and computational skills, principles and concepts appropriate to the design and operation of aircraft, and professional skills for the aerospace industry.

This course aims to produce highly qualified aerospace engineers equipped with the skills for employment in the field of aerospace engineering and related topics.

Staff teaching on the course carry out research with collaborators outside the university, including aircraft manufacturers. Students benefit from excellent laboratory facilities, including a full-motion aircraft flight simulator. Industry-standard specialist software for engineering design is available to students 24 hours a day in dedicated computer clusters.

Accreditation

The programme is accredited by the Royal Aeronautical Society (RAeS) and the Institution of Mechanical Engineers (IMechE). The MEng degree course fulfils the academic requirement to go forward for registration as a Chartered Engineer (CEng).

Teaching and assessment

You will be taught using a variety of methods including lectures, laboratories, design studios and one-to-one supervision. You will undertake assignments, project work, reports on laboratory practicals, oral presentations, short tests and examinations.

UCAS codes

Aerospace Engineering BEng

<table>
<thead>
<tr>
<th>Code</th>
<th>Entry Code</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>H402</td>
<td></td>
<td>3 years</td>
</tr>
<tr>
<td>H401</td>
<td></td>
<td>4 years</td>
</tr>
</tbody>
</table>

Aerospace Engineering MEng

<table>
<thead>
<tr>
<th>Code</th>
<th>Entry Code</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>H400</td>
<td></td>
<td>4 years</td>
</tr>
<tr>
<td>H403</td>
<td></td>
<td>5 years</td>
</tr>
</tbody>
</table>

= full-time
THICK = thick-sandwich

BEng ENTRY CRITERIA

GCE A-level AAB, including Maths and Physics (General Studies and Critical Thinking not accepted).

IB Diploma 33 points, including 6 and 5 in Higher Level Mathematics and Higher Level Physics.

BTEC Level 3 Extended Diploma D*D*D, including Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass Access to Engineering course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher. All Maths and Physics units must be Distinctions at Level 3.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

MEng ENTRY CRITERIA

GCE A-level AAA, including Maths and Physics (General Studies and Critical Thinking not accepted).

IB Diploma 34 points, including 6 in Higher Level Mathematics and 6 in Higher Level Physics.

BTEC Level 3 Extended Diploma D*D*D*, including Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma courses are not accepted for the MEng entry. Access students should apply for the BEng in this subject. Those who achieve the progression requirements on our degree can transfer to the MEng at the end of Level 2.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

www.brunel.ac.uk/courses

Check the Web for up-to-date course, entry criteria and fees information

For Engineering with an Integrated Foundation Year entry see page 136.
Employability
We have a reputation for producing graduates of the highest calibre, equipped with transferable skills that are designed to meet the challenges of employment within the engineering sector. Generally, our MEng students have a number of job offers before they graduate.

Placements
The sandwich degree programme enables students to undertake high-quality, paid work placements within a variety of companies and organisations, which can count towards the professional development needed to become a Chartered Engineer.

Careers
Aerospace Engineering graduates take up employment in fields such as aircraft and components design and manufacture, maintenance and testing, flight simulation, aviation, avionics, patent engineering, and many more.

Typical modules
- Solid Body Mechanics
- Thermofluids
- Analytical Methods and Skills
- Engineering Materials, Manufacturing and Electrical Machines
- Engineering Design
- Aerospace Laboratories, Technical Drawing and Workshop Experience
- Principles of Aircraft Design
- Professional Engineering Applications and Practice
- Computing, Analytical Methods, Control and Instrumentation
- Major Individual Project
- Propulsion Systems, Aircraft Structures and Materials
- Flight Testing and Analysis
- FEA, CFD and Design of Engineering Systems (BEng)
- FEA, CFD and Numerical Modelling (MEng)

MEng
- Major Group Project
- Strategic Management, Innovation and Enterprise
- Current Topics in Aerospace
- Design and Analysis of Aircraft and Spacecraft Systems
- Advanced Aerodynamics, Propulsion Systems and Space Mechanics
- Advanced Thermofluids or Advanced Solid Body Mechanics

Upon graduation, many students receive job offers from their placement companies. Destinations include: Rolls-Royce Aerospace Engines, Airbus, BAE Systems, GE Aviation and the Ministry of Defence.

95% record for graduate employment or further study

95%
About the course

This degree aims to produce automotive engineering graduates of the highest calibre, fully equipped with the technical and managerial skills required to design, develop and manufacture future environmentally friendly road vehicles of acceptable performance, reliability and cost.

Subjects studied include analytical and computational skills, principles and concepts appropriate to the design and operation of road car and commercial vehicles, such as materials, manufacturing methods, internal combustion engines, aerodynamics, vehicle performance and electronics. There are also professional skills modules designed to equip graduates with commercial awareness.

Teaching and assessment

Teaching is by a mixture of lectures, laboratories, design studios and one-to-one supervision. There are written examinations in May of each year. In Level 3 all students undertake a major individual project, often with industrial support.

Placements

If you opt for a sandwich course, you will have the added bonus of putting your academic study into practice and developing ideas about future careers. Some graduates are offered full-time graduate posts at the companies where they carried out their work placements.

MEng final year project

All students participate in a team project of 5-6 people, which develops transferable skills and the ability...
to design, manufacture and test an automotive product, typically aimed at low carbon use.

Careers

The UK automotive industry is historically known for innovative automotive engineering, clearly demonstrated by various technical centres of excellence set up by global car manufacturers and suppliers in recent years. The exciting low carbon vehicle technologies now being developed within the UK make for a highly challenging and exciting career for UK automotive engineering graduates.

A number of Brunel graduates are currently working in key technical and managerial positions within the automotive industry. Recent destinations have included Jaguar Land Rover, Aston Martin, McLaren Automotive, Ricardo, Nissan, Bentley Motors, Ford, Lotus Cars, BP, MAHLE Powertrain, JCB, Perkins and Delphi.

Typical modules

- Solid Body Mechanics
- Thermofluids
- Analytical Methods and Skills
- Engineering Materials, Manufacturing and Electrical Machines
- Engineering Design
- Automotive Laboratories, Technical Drawing and Workshop Experience
- Automotive Vehicle Design and Performance
- Computing, Analytical Methods, Control and Instrumentation
- Professional Engineering Applications and Practice
- Major Individual Project
- Automotive Structures, Propulsion and Manufacture
- FEA, CFD and Design of Engineering Systems (BEng)
- FEA, CFD and Numerical Modelling (MEng)

MEng

- Major Group Project
- Advanced Automotive Propulsion and Sustainability
- Advanced Automotive Performance and Reliability
- Strategic Management, Innovation and Enterprise
- Advanced Thermofluids
- Advanced Solid Body Mechanics

Brunel’s Centre for Advanced Powertrain and Fuels Research (CAPF) is one of the largest and most active engine research groups in the UK.

Industry-standard specialist software for engineering design is available to students 24 hours a day in dedicated computer clusters.

During my placement with Halla Visteon Climate Control (HVCC), a vehicle parts manufacturer in Cologne, Germany, I was testing and developing Heat Exchangers in a range of modern road-going cars.

Cameron McRoberts
About the course

Aviation Engineering is aimed at those students who wish to undertake engineering roles within the operational side of the aviation industry, but who also retain an interest in flying.

Aviation Engineering with Pilot Studies provides an ideal starting point to train to become a professional pilot. It incorporates fundamental practice and theory, but also presents the opportunity to obtain a Private Pilot’s Licence (PPL) and flight training at an extra cost.

Accreditation

The programme is accredited by the Royal Aeronautical Society (RAeS) and the Institution of Mechanical Engineers (I Mech E). The BEng degree course fulfils the academic requirement for registration as a Chartered Engineer (CEng). The BEng degree course fulfils the academic requirement to go forward for registration as an Incorporated Engineer (IEng); it partially fulfils the academic requirement for Chartered Engineer (CEng) registration.

Teaching and assessment

You will be taught through a variety of methods including lectures, laboratories, design studios and one-to-one supervision. You will undertake assignments, project work, reports on practicals, presentations, tests and written examinations.

UCAS codes

Aviation Engineering BEng
HH44 3 years
HH4C 4 years

Aviation Engineering with Pilot Studies BEng
HHK 3 years
HHK4 4 years

Aviation Engineering MEng

Aviation Engineering with Pilot Studies MEng
HH4Y 4 years
HH4L 5 years

Access to HE Diploma courses are not accepted for the MEng entry. Access students should apply for the BEng in this subject. Those who achieve the progression requirements on our degree can transfer to the MEng at the end of Level 2.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

About the course

Aviation Engineering is aimed at those students who wish to undertake engineering roles within the operational side of the aviation industry, but who also retain an interest in flying.

Aviation Engineering with Pilot Studies provides an ideal starting point to train to become a professional pilot. It incorporates fundamental practice and theory, but also presents the opportunity to obtain a Private Pilot’s Licence (PPL) and flight training at an extra cost.

www.brunel.ac.uk/flying

The MEng covers more detailed technical aspects, such as computer modelling and aeronautics.

Aviation Engineering BEng/MEng
Aviation Engineering with Pilot Studies BEng/MEng

BEng ENTRY CRITERIA

GCE A-level AAB, including Maths and Physics (General Studies and Critical Thinking not accepted).

IB Diploma 33 points, including 6 and 5 in Higher Level Mathematics and Higher Level Physics.

BTEC Level 3 Extended Diploma D*D*D, including Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass Access to Engineering course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher. All Maths and Physics units must be Distinctions at Level 3.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

MEng ENTRY CRITERIA

GCE A-level AAA, including Maths and Physics (General Studies and Critical Thinking not accepted).

IB Diploma 34 points, including 6 in Higher Level Mathematics and 6 in Higher Level Physics.

BTEC Level 3 Extended Diploma D*D*D*, including Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma courses are not accepted for the MEng entry. Access students should apply for the BEng in this subject. Those who achieve the progression requirements on our degree can transfer to the MEng at the end of Level 2.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

www.brunel.ac.uk/nif
There is so much experience and knowledge that you can gain, so many opportunities that you can take advantage of.

Simon Williams

Employability
We have an established reputation for producing graduates equipped with transferable skills that are designed to meet the needs of the engineering sector.

Placements
Students undertake paid work placements in aviation or related industry, which can count towards the professional development needed to become an Incorporated or Chartered Engineer.

Careers
These courses have been developed to allow graduates a range of career options within the aircraft industry. Graduates can enter almost any professional aerospace career, for example as an aeronautical engineer, commercial or military pilot or air traffic controller.

Typical modules
- Solid Body Mechanics
- Thermofluids
- Analytical Methods and Skills
- Aircraft Ground Theory and Flying Practice, or Design Project
- Engineering Materials, Manufacturing and Electrical Machines
- Aerospace Laboratories, Technical Drawing and Workshop Experience
- Performance and Control of Aircraft
- Principles of Aircraft Design
- Professional Engineering Applications and Practice
- Major Individual Project
- Propulsion Systems, Aircraft Structures and Materials

Flight Testing and Airport Environment and Design (BEng)
FEA, CFD and Numerical Modelling (MEng)

MEng
- Major Group Project
- Strategic Management, Innovation and Enterprise
- Current Topics in Aerospace
- Advanced Aerodynamics, Propulsion Systems and Space Mechanics
- Design and Analysis of Aircraft and Aerospace Vehicles
- Advanced Thermofluids or Advanced Solid Body Mechanics
Mechanical Engineering BEng/MEng

BEng ENTRY CRITERIA
GCE A-level AAB, including Maths and Physics (General Studies and Critical Thinking not accepted).
IB Diploma 33 points, including 6 and 5 in Higher Level Mathematics and Higher Level Physics.
BTEC Level 3 Extended Diploma D*D*D, including Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.
For BTEC Level 3 and A-level combinations see the course web page.
Access to HE Diploma Complete and pass Access to Engineering course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher. All Maths and Physics units must be Distinctions at Level 3.
In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

MEng ENTRY CRITERIA
GCE A-level AAA, including Maths and Physics (General Studies and Critical Thinking not accepted).
IB Diploma 34 points, including 6 in Higher Level Mathematics and 6 in Higher Level Physics.
BTEC Level 3 Extended Diploma D*D*D*, including Distinctions in Further Mathematics and Further or Advanced Mechanical Principles.
For BTEC Level 3 and A-level combinations see the course web page.
Access to HE Diploma courses are not accepted for the MEng entry. Access students should apply for the BEng in this subject. Those who achieve the progression requirements on our degree can transfer to the MEng at the end of Level 2.
In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

About the course
Our Mechanical Engineering degree programme is a suite of four courses, the first two years of which are taught together, with the opportunity to specialise in the third year. The fundamental elements include mechanics, fluids and energy systems, as well as computing, electronics and control. To give you an insight into engineering in the context of commerce and society, you will also study elements of management, environment, ethics, finance and engineering law.
Mechanical Engineering is very broad in the topics covered. The specialisms in this general degree include sustainability and mechatronics, which may be applied to the manufacturing sector, or to more specialist fields such as biomedical engineering.
Mechanical Engineering with Aeronautics shares some of the topics of aircraft design studied in our specialist aerospace and aviation degrees.
Mechanical Engineering with Building Services includes topics that many of our academic staff are leading the field in their research, such as natural ventilation of deep-plan buildings, and the application of solar energy in buildings.
If you enter on a BEng degree route, you may transfer to the MEng programme at the end of the second year by obtaining a pre-set progression standard.

Accreditation
The programme is accredited by the Institution of Mechanical Engineers (IMechE). The MEng degree course fulfils the academic requirement for registration as a Chartered Engineer (CEng). The BEng degree course fulfils the academic requirement for registration as an Incorporated Engineer (IEng) and partly fulfils that for Chartered Engineer (CEng) if you were to undertake further accredited study.

Teaching and assessment
Teaching is by a mixture of lectures, laboratories, design studios and one-to-one supervision. You will undertake assignments, project work, reports on laboratory practicals, oral presentations, short tests and examinations.
This degree has been fundamental to both obtaining my position working in product development in the oil and gas industry and in underpinning the foundations of knowledge that assist me in my career.

Kanza Amanullah

Employability
We have a reputation for producing graduates of the highest calibre, equipped with transferable skills that are designed to meet the challenges of employment within the engineering sector. Generally, our MEng students have had a number of job offers before they graduate.

Careers
The range of industries, commerce and public sector careers in which our graduates choose to work is vast, including aviation, agricultural machinery, automotive design, energy and environmental engineering, gas and water supply, oil production, mining and mineral processing, nuclear power, patent engineering, the armed forces and the railways.

Placements
The 'sandwich' option enables students to undertake high-quality, paid work placements within a variety of companies and organisations. The placement not only permits the student to gain experience and academic credit, but also to develop the competencies valued by the IMechE, within an accredited scheme of Initial Professional Development, and so contributes to their development as a Chartered or Incorporated Engineer.

MEng final year project
All students participate in a team project of 5-6 people. Recent examples of projects have included a novel means of filtering water, and applying fuel-cell technology to motorcycles.

Typical modules
- Solid Body Mechanics
- Thermofluids
- Analytical Methods and Skills
- Engineering Materials, Manufacturing and Electrical Machines
- Engineering Design
- Mechanical Laboratories, Technical Drawing and Workshop Experience
- Computing, Analytical Methods, Control and Instrumentation
- Professional Engineering Applications and Practice
- Design and Analysis of Mechanical Systems and Components
- Major Individual Project
- FEA, CFD and Design of Engineering Systems (BEng)
- FEA, CFD and Numerical Modelling (MEng)
- Sustainability, Mechatronics, and IC Engines (General Mechanical Engineering (GME))
- Principles of Aircraft Design (Aeronautics)
- Vehicle Design and IC Engines (Automotive Design)
- Mechanical and Electrical Services for Buildings (Building Services)

MEng
- Major Group Project
- Strategic Management, Innovation and Enterprise
- Advanced Modelling and Design
- Advanced Computer Engineering
- Advanced Thermofluids
- Advanced Solid Body Mechanics
About the course

This course aims to prepare graduates for work with power plants or manufacturers of power plant equipment (mechanical). It covers various aspects of mechanical engineering directly related to energy engineering including engineering design, techno-economic analysis and operation of energy technologies and systems.

Modules range from the basics of mechanical and (both conventional and new/renewable) energy engineering to complex fluid flow and heat transfer and engineering economics.

Teaching and assessment

You will learn through a mixture of lectures and seminars, laboratory practicals, field work, self-study, individual research reports, design studios and one-to-one supervision. There are written examinations in May of each year. In Level 3 all students undertake a major individual project, often with industrial support.

Placements

If you opt for a sandwich course, you will have the added bonus of putting your academic study into practice and developing ideas about future careers.

Careers

Opportunities exist throughout the world as contributors to the challenging global energy market. The main demands that the energy sector faces today are securing the supply of energy and the reduction of greenhouse gas emissions. Fuel, method of energy generation, amount and nature of energy demand...
and type of energy delivery technology strongly impact both of these demands. Technologically advanced conventional, new and renewable energy systems are being promoted through favourable policies and economic incentives whilst the energy efficiency measures are being increasingly used to reduce the demand. Private and public sectors are investing billions to develop the energy sector of the 21st century. It is expected that graduates from this course will be suitable for employment in this growing sector. Prospective employers include E.ON, BP, British Gas, Siemens, Centrica and Sharp Solar.

Typical modules

- Solid Body Mechanics
- Thermofluids
- Analytical Methods and Skills
- Engineering Materials and Design
- Energy and Electrical Power
- Mechanical and Energy Laboratories, Technical Drawing and Workshop Experience
- Professional Engineering Applications and Practice
- Computing, Analytical Methods, Control and Instrumentation
- Design of Conventional and Renewable Energy Generation and Storage Systems
- Major Individual Project
- Power Generation Systems and Sustainability
- FEA, CFD and Design of Engineering Systems (BEng)
- FEA, CFD and Numerical Modelling (MEng)

MEng

- Major Group Project
- Strategic Management, Innovation and Enterprise
- Advanced Thermofluids
- Advanced Heat and Mass Transfer

Any two options from:

Motorsport Engineering BEng/MEng

About the course
This degree provides a rigorous and traditional academic education coupled with a well-developed appreciation of the highly competitive and commercial nature of the automotive industry generally, and the motorsport sector specifically. The subjects studied include analytical and computational skills, principles and concepts appropriate to the design and operation of racing vehicles, such as materials, manufacturing methods, IC engines, aerodynamics, vehicle dynamics and electronics, and professional skills.

This course aims to produce highly qualified motorsport engineers equipped with qualities and transferable skills for employment in the motorsport, automotive and related industries and in the public sector.

Accreditation
The programme is accredited by the Institution of Mechanical Engineers (IMechE). The MEng degree course fulfils the academic requirement to go forward for registration as a Chartered Engineer (CEng).

Teaching and assessment
Teaching is by a mixture of lectures, laboratories, design studios and one-to-one supervision. You will undertake assignments, project work, reports on laboratory practicals, oral presentations, tests and examinations.

MEng final year project
Motorsport Engineering students form the management team of Brunel Racing FS, and take on the responsibility of designing, building, testing, and competing a prototype race car in Formula Student competitions.

About the course
This degree provides a rigorous and traditional academic education coupled with a well-developed appreciation of the highly competitive and commercial nature of the automotive industry generally, and the motorsport sector specifically. The subjects studied include analytical and computational skills, principles and concepts appropriate to the design and operation of racing vehicles, such as materials, manufacturing methods, IC engines, aerodynamics, vehicle dynamics and electronics, and professional skills.

This course aims to produce highly qualified motorsport engineers equipped with qualities and transferable skills for employment in the motorsport, automotive and related industries and in the public sector.

Accreditation
The programme is accredited by the Institution of Mechanical Engineers (IMechE). The MEng degree course fulfils the academic requirement to go forward for registration as a Chartered Engineer (CEng).

Teaching and assessment
Teaching is by a mixture of lectures, laboratories, design studios and one-to-one supervision. You will undertake assignments, project work, reports on laboratory practicals, oral presentations, tests and examinations.

MEng final year project
Motorsport Engineering students form the management team of Brunel Racing FS, and take on the responsibility of designing, building, testing, and competing a prototype race car in Formula Student competitions.
Employability
We have a reputation for producing graduates of the highest calibre, equipped with transferable skills that are designed to meet the challenges of employment within the engineering sector. Generally, our MEng students have a number of job offers before they graduate.

Careers
Motorsport is a highly competitive global industry which is constantly evolving as companies seek to gain an edge. A number of Brunel graduates are currently working in motorsport or related engineering companies holding senior positions. Destinations have included Mercedes F1, Williams, Force India F1, Lotus, McLaren Honda, Jaguar Land Rover, Red Bull and Triumph Motorcycles.

Placements
Sandwich students spend a year working in motorsport or a related industry. Some graduates are offered full-time graduate posts at the companies where they carried out their work placements.

Typical modules
- Solid Body Mechanics
- Thermofluids
- Analytical Methods and Skills
- Engineering Materials, Manufacturing and Electrical Machines
- Engineering Design
- Motorsport Laboratories, Technical Drawing and Workshop Experience
- Computing, Analytical Methods, Control and Instrumentation
- Professional Engineering Applications and Practice

MEng
- Racing Vehicle Design
- Major Individual Project
- Vehicle Performance
- FEA, CFD and Design of Engineering Systems (BEng)
- FEA, CFD and Numerical Modelling (MEng)

My industrial placement, being part of one of the top Formula Student teams in the country, and alumni I knew as students combine to create networks where your reputation is known by numerous individuals within companies you want to work at.

Gareth Gwilliam

Students have the opportunity to be part of the award-winning Brunel Racing team

A number of graduates are currently working in the highly-competitive, fast-moving motorsport sector as design engineers for Formula One teams
About the course

This programme is designed for students who wish to focus on the academic study of music, while retaining the freedom to pursue composition, performance, and music technology. It provides a broad knowledge of the development of Western music through topics such as song, contrapuntal forms, sonata form, the symphony, opera, music-theatre, and film music. This leads to a focused and in-depth study of the music of the twentieth and twenty-first centuries at Level 3. It introduces important methods of analysis, as well as ideas in aesthetics and the sociology of music. Students will gain skills in writing about music, and are free to take a wide range of practical modules in addition to the core musicology strand.

Brunel has a strong tradition of practical music-making and there are a number of ensembles that you can participate in, including the New Music Ensemble, Jazzbridge, Brunel Vox and New Noise. Our Artists-in-Association are Apartment House, Piano Circus and Leafcutter John.

Facilities include a computer suite fully equipped for sound design and notation, studios for individual work, individual practice rooms and larger spaces for group rehearsals.

Teaching and assessment

The music staff includes some of the country’s leading composers and performers, with teaching and research strengths in composition, performance,
We take your career seriously, mentoring you through your choices whether setting up a music production company, forming a recording studio, pursuing careers as performers, composers, teachers, or music therapists.

The annual National Student Survey results for 2014 ranked Music at Brunel as top in London for student satisfaction with 98% of students satisfied with the quality of Brunel's Music and Sonic Arts programmes. This performance ranks Brunel as the 2nd best university in the country for overall satisfaction in Music.

Brunel set me up with skills that allow me to work in a multitude of roles across the Arts industry.

Romy Summers

Employability

Brunel's music courses help develop a wide range of vocational, collaborative and transferable skills that are highly attractive to employers. Students have the opportunity, for example, to develop IT ability and highly sought-after presentation and communications skills.

Careers

Many of our graduates have either progressed to postgraduate study at a university or conservatoire or have entered the music profession as performers, composers, teachers and technicians. Others have entered arts administration, publishing, the media and management.

Typical modules

- Musicianship
- Materials of Music
- Musicology
- Sound Recording & Sonic Arts
- Composition
- Performance
- Music and Perception
- Instrumentation and Orchestration
- Conducting and Realisation
- Popular Music Studies
- Stylistic Improvisation
- Free Improvisation
- Jazz and Pop arranging
- Professional Development
- Dissertation
About the course

This programme is aimed at students who wish to study musical composition to an advanced level. It provides a grounding in the main compositional techniques of the twentieth and twenty-first centuries, and helps you to use this understanding in your original work. There are regular opportunities to hear your work played and you will be free to pursue options in performance, sonic art, and musicology in addition to your core composition modules. Brunel has a strong tradition of practical music-making and there are a number of ensembles that you can participate in, including the New Music Ensemble, Jazzbridge, Brunel Vox and New Noise.

Teaching and assessment

The music staff includes some of the country’s leading composers and performers, with teaching and research strengths in composition (both acoustic and studio-based), performance, musicology and socio-critical musicology. Teaching is delivered through a mixture of lectures, seminars, workshops and one-to-one tutorials. Assessment methods include coursework, individual and group projects, oral presentations, practical work and some written examinations.

Our Artists-in-Association are Apartment House, Piano Circus and Leafcutter John.

BMus ENTRY CRITERIA

All candidates without A-level Music at grade B or equivalent or Grade 8 ABRSM, LCMM or Trinity College will be required to pass a brief entrance test, details of which will be provided upon application.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

UCAS codes

Composition BMus

2K12 3 years ☺
4.5-6 years ☼

= full-time
= part-time

GCE A-level BBB, including Music.
IB Diploma 30 points, including 5 in Higher Level Music.
BTEC Level 3 Extended Diploma DDD in a related subject.
For BTEC Level 3 and A-level combinations see the course web page.
Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3 and 15 credits at Level 2 with Merits in all units.

www.brunel.ac.uk/courses

Check the Web for up-to-date course, entry criteria and fees information
Employability
Brunel’s music courses help develop a wide range of vocational, collaborative and transferable skills that are highly attractive to employers. Students have the opportunity, for example, to develop IT ability and highly sought-after presentation and communications skills.

Careers
Many of our graduates have either progressed to postgraduate study at a university or conservatoire or have entered the music profession as performers, composers, teachers and technicians. Others have entered arts administration, publishing, the media and management. Graduates have gone on to work for prestigious companies such as Universal (Decca), the London Sinfonietta and the English National Opera.

Typical modules
- Musicianship
- Materials of Music
- Musicology
- Sound Recording & Sonic Arts
- Composition
- Performance
- Music and Perception
- Instrumentation and Orchestration
- Conducting and Realisation
- Popular Music Studies
- Stylistic Improvisation
- Free Improvisation
- Jazz and Pop arranging
- Professional Development
- Special Project
About the course

This programme is designed for performers on any instrument or voice. It will help you to develop sensitive and imaginative approaches to musical performance, and will help you to inform your performance with an awareness of the historical and social context in which the music was written.

Instrumental tuition is provided, and many options, such as music technology and composition, are available.

Facilities include a computer suite fully equipped for sound design and notation, studios for individual work, individual practice rooms and larger spaces for group rehearsals.

Teaching and assessment

The music staff includes some of the country’s leading composers and performers, with teaching and research strengths in composition (both acoustic and studio-based), performance, musicology and socio-critical musicology. Modules reflect the expertise of staff and focus on technique and interpretation in...
contemporary music performance, as well as relevant cultural and historical issues. Teaching is delivered through a mixture of lectures, seminars, workshops and one-to-one tutorials. Assessment methods include coursework, individual and group projects, oral presentations, practical work and some written examinations.

**Employability**

Brunel’s music courses help develop a wide range of vocational, collaborative and transferable skills that are highly attractive to employers. Students have the opportunity, for example, to develop IT ability and highly sought-after presentation and communications skills.

**Careers**

Many of our graduates have either progressed to postgraduate study at a university or conservatoire or entered the music profession as performers, composers, teachers and technicians. Graduates now work for prestigious companies such as Universal (Decca), the London Sinfonietta and the English National Opera.

**Typical modules**

- Musicianship
- Materials of Music
- Musicology
- Sound Recording & Sonic Arts
- Composition
- Performance
- Performance II (Classical or Experimental)
- Performance II (Popular Music or Jazz)
- Music and Perception
- Instrumentation and Orchestration
- Conducting and Realisation
- Popular Music Studies
- Stylistic Improvisation
- Free Improvisation
- Jazz and Pop arranging
- Professional Development
- Performance III (Classical/Experimental or Popular Music/Jazz)
- Special Project
Sonic Arts BA

About the course

This programme is designed for students who wish to extend their understanding of music technology as a creative tool. Starting from a foundation in sound software and hardware and recording techniques, you will progress towards advanced study of sonic arts composition and live interaction. You will also be free to pursue interests in composition, performance, improvisation, and musicology.

For their first year, Sonic Arts students join other music students in a range of studies aimed at establishing a rounded twenty-first century musicianship, including both music technology and a broader perspective on music theory and practice. You should therefore be studying Music at A-level or have a pass at least Grade 5 theory to apply for this programme. If not, we will require you to take our online music admissions test.

Facilities include a computer suite fully equipped for sound design and notation, studios for individual work, individual practice rooms and larger spaces for group rehearsals. There is a vibrant student performance culture on campus comprising several ensembles performing contemporary and classical music, improvisation, jazz, and live electronics. Our Artists-in-Association are Apartment House, Piano Circus and Leafcutter John.

BA ENTRY CRITERIA

GCE A-level BBB, including Music.
IB Diploma 30 points, including 5 in Higher level Music.
BTEC Level 3 Extended Diploma DDD in a related subject.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3 and 15 credits at Level 2 with Merits in all units.

All candidates without A-level Music at grade B or equivalent or Grade 8 ABRSM, LCMM or Trinity College will be required to pass a brief entrance test, details of which will be provided upon application.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

Sound, art and technology, but not necessarily in that order, the Sonic Arts programme at Brunel is for those wanting a unique and exciting take on music creation.

Carl Faia

UCAS codes

Sonic Arts BA
WJ39 3 years
4.5-6 years

= full-time
= part-time

BBB

www.brunel.ac.uk/courses
Check the Web for up-to-date course, entry criteria and fees information
Teaching and assessment
Teaching is delivered through a mixture of lectures, seminars, workshops and one-to-one tutorials. Assessment methods include coursework, individual and group projects, oral presentations, practical work and some written examinations.

Employability
Brunel’s music courses help you to develop a wide range of vocational, collaborative and transferable skills that are highly attractive to employers. Students have the opportunity, for example, to develop IT ability and highly sought-after presentation and communications skills.

Careers
High proportions of our graduates have either progressed to postgraduate study at a university or conservatoire or have entered the music profession as performers, composers, teachers and technicians. Graduates have gone on to set up their own labels, companies and work for some of the big names in media production in areas such as sound design Foley and composition.

Typical modules
- Musicianship
- Materials of Music
- Musicology
- Sound Recording & Sonic Arts
- Composition
- Performance
- Music and Perception
- Instrumentation and Orchestration
- Conducting and Realisation
- Popular Music Studies
- Stylistic Improvisation
- Free Improvisation
- Jazz and Pop arranging
- Professional Development
- Special Project

BEAM, our annual festival of homemade instruments and sonic installations, takes place in June
About the course

As occupational therapists and educators we value human occupation, believing that an individual’s occupational performance is integral to health and quality of life. Viewing people as individuals is central to our philosophy. A client-centred approach facilitates the practical application of this philosophy and recognises the importance of the therapist to enable optimum occupational performance.

The programme aims to prepare students to become competent occupational therapists equipped for lifelong, safe and effective practice in a variety of health and care settings. A BSc Occupational Therapy degree enables graduates to work in many areas: physical rehabilitation, mental health settings, with children in schools or in clinics and with people with learning disabilities, to name a few.

Periods of academic study on campus are interspersed with practice placements. Students can make use of the first-rate facilities and resources in our purpose-built building and across campus. Students will also benefit from our close links with colleagues in the NHS, social services and voluntary organisations through research and practice placements.

If you are considering studying Occupational Therapy (Pre-Registration) at Brunel University London then you are committed to working jointly with the NHS to demonstrate the values and beliefs of the constitution. Patients, public and staff have helped develop this expression of values that inspire passion in the NHS and that should underpin everything it does. Individual organisations will develop and build upon these values, tailoring them to their local needs. The NHS values provide common ground for co-operation to achieve shared aspirations, at all levels of the NHS.

Accreditation

The programme is approved by the Health and Care Professions Council and accredited by the College of Occupational Therapists. Graduates

UCAS codes

Occupational Therapy BSc

B920 3 years

= full-time
are eligible to apply for registration with the Health and Care Professions Council. Graduates may also apply for membership of the British Association/College of Occupational Therapists.

Teaching and assessment
We use a variety of teaching approaches including lectures, seminars, tutorials, discussion groups, laboratory work, experimental work, practical work with theoretical presentations, case studies, workshops, peer teaching/learning, IT, and experiential learning. A variety of assessment tools are used, including written examinations, essays and reports together with practical presentations and on-line assessments. Students are assessed on each practice placement and must pass these in order to graduate.

Employability
A strong emphasis is placed on development of professional competence and identity. The final year module ‘Professional Practice’ examines the history and context of potential employers such as the National Health Service and local authorities. Topics such as ‘continuing professional development’, ‘preparing for interviews’ and ‘developing a personal statement’ are addressed. Students have the opportunity to develop a variety of transferable skills such as communication, IT, problem-solving and teamwork, and placements and practicals provide the opportunity to practise and develop these skills.

Careers
Graduates may practise as an occupational therapist following successful completion of the programme and registration with the Health and Care Professions Council. Many graduates begin their career with a preceptorship, which provides mentoring for the first months as a professional. Our graduates now work in a wide range of health and care settings as practitioners, consultants, managers, lecturers and researchers.

Placements
The practice placement provides professional experience in locations such as hospitals, the community, the workplace and the home. Placement settings include Guy’s and St Thomas’ hospitals, Ealing Social Services and The Kids Company.

Typical modules
- Knowledge and Skills for Occupational Therapy
- Human Sciences
- Professional Development
- Practice Placements
- Personal and Academic Development
- The Effective Practitioner
- Theory of Occupation
- Occupations for Health and Wellbeing
- Professional Practice
- Continuing Professional Development (CPD)
- Occupational Therapy Provision and Service Development
- Research Methods
- Research in Occupational Therapy
About the course

The Physiotherapy programme at Brunel will prepare you for clinical excellence and professional autonomy. The programme will provide you with a strong scientific foundation, a substantial repertoire of physiotherapeutic skills, and excellent clinical reasoning skills.

We will also provide you with the means to critically evaluate the effectiveness of your own treatments and those of others – a skill which is vital to continuing evidence-based practice. A sound working knowledge of research methodology provides you with the basis for this evaluation process and also provides you with the tools to develop your own research interests.

The Mary Seacole Building offers an excellent environment for physiotherapy education and is complemented by the full range of sporting and leisure facilities on campus. The programme is continually reviewed and adapted to reflect current practice and to best prepare the graduate for their role in a changing workplace.

If you are considering studying Physiotherapy at Brunel University London then you must be committed to working jointly with the NHS to demonstrate the values and beliefs of the NHS constitution.

Patients, the public and NHS staff have worked together to develop this expression of values which inspire absolute professionalism in the NHS and which should underpin everything the NHS does and provide common ground to achieve shared aspirations, at all levels of the NHS.

Professional accreditation

Successful completion of the programme will enable you to apply for registration with the Health Care Professions Council (HCPC) and to become a member of the Chartered Society of Physiotherapy (MCSP).

Teaching and assessment

We use a variety of teaching and learning methods throughout the course including lectures, tutorials,
practical sessions, study guides and computer-based learning packages.

A variety of assessment tools are used including written exams, written assignments, practical exams, vivas, literature reviews and a project proposal. Practical modules are likely to be assessed practically while the more theoretical modules may be assessed by unseen exam papers, a viva or a written assignment.

**NHS bursary**

All students on the full-time course classified as home students and normally resident in the UK for the four year period immediately prior to starting the programme will normally receive a means-tested NHS bursary and a fees paid place. Students in receipt of an NHS bursary will not normally be required to pay tuition fees or top-up fees.

**Self-funding places**

International applications and applications from EU candidates not resident in the UK for the three year period immediately prior to the programme start will be required to self fund on a home/EU or international basis. All self funders will be required to pay Placement fees of £2,000 payable at years 2 and 3 of the programme.

**Employability**

The programme aims to produce highly professional graduates with excellent clinical skills who are able to function as independent clinicians and fully interactive members of the multidisciplinary health care team.

**Careers**

The physiotherapy team strongly recommends that graduates enter the NHS on qualification. We feel that the organisation of the NHS and the scope of patients who pass through it offer newly-graduated physiotherapists an invaluable learning opportunity and provides a solid clinical foundation on which to base their future career choices.

**Placements**

Our students complete 30 weeks of full time clinical experience in a variety of health-care settings reflective of current practice. There is an opportunity for final year students to participate in an Erasmus exchange programme.

**Typical modules**

- Anatomy
- Rehabilitation
- Pathophysiology
- Professional Development
- Musculoskeletal – Lower Quadrant and Upper Quadrant
- Respiratory
- Neurorehabilitation
- Clinical Preparation
- Clinical Placements
- Cardiovascular Health
- Critical Care
- Paediatrics
- Ageing Studies
- Women’s Health
- Oncology and Palliative Care
- Research Methodology
- Research Proposal
- Falls Services
- Mental Health
- Clinical Education
About the course
This course offers exciting opportunities to explore diverse past societies and cultures in the modern period. Through an examination of life as it was lived in the past, you gain knowledge of the workings of human society and learn to understand the connections between present and past events.

History at Brunel offers a stimulating and challenging range of modules that draw directly on the research interests of staff. You will study a variety of historical perspectives (economic, social, political, intellectual and cultural) and be encouraged to develop skills in recovering and interpreting historical evidence, in formulating arguments and in developing your own historical perspectives.

The programme also enables you to develop your powers of independent enquiry, critical analysis and judgement, as well as planning and time management.

Teaching and assessment
Modules are generally taught by a mixture of lectures and seminars. The bulk of every student’s work, however, will consist of private study. Exact assessment patterns vary, but most are based on a combination of coursework and formal written exams.

Employability
You will develop your communications, report writing and presentation skills to a sound level, equipping you well for your subsequent career. There are also opportunities to gain IT skills and to learn or improve a foreign language.

Careers
A history degree equips you for work as a researcher, teacher or librarian, as well as for careers in the museum and heritage sectors, in NGOs and government agencies, the civil service and the media. In addition, past students have gained employment in a wide range of occupations including...
company management, business consultancy, and law practice.

Placements
Students on the sandwich course have the opportunity to gain professional work experience with a wide range of external organisations. On placements, students develop invaluable skills and in some cases have been offered graduate positions within the organisations in which they undertook their work placements.

Study abroad
As part of the ERASMUS exchange scheme, students have the opportunity to spend part of their degree at a European university. An exchange opportunity is also offered in China.

Typical modules
- Revolution, Liberty and the Origins of American Democracy
- What is History?
- Capital Labour and Power: 1707-1939
- History, Memory and Culture in Europe Since 1789
- The Making of the Modern World
- Migration and the Settler World: 1600-1914
- Historians and their Craft
- Total War in the Modern Era
- US Foreign Policy from World War II to the end of the Cold War
- The Holocaust
- Media and the Military
- Themes in the History of Modern Africa
- Film and Politics
- History of Women’s Movements
- British maritime World 1660-1850
- Slavery and Abolition in the Atlantic World
- Issues in American Politics
- First World War
- The State and Revolution
- History Dissertation
- The Arab-Israeli Conflict
- Fascism
- The Second World War
- The History and Politics of Heritage
- Rethinking Modern Europe: Borders, Nations and Identities since 1850
- Australia and the Modern World
- Empire, Imperialism, Hegemony
- Media, Politics and Power in America
- Intelligence and National Security
- Modern British Naval History
- Globalisation and Governance
- Marx and Marxism
- Monstrosity in Political Thought
- Psychogeography

Ranked third for History in The Guardian University Guide 2014, with only Cambridge and St. Andrews ahead of Brunel in this subject area

Recent placements included roles in museums, secondary schools and municipal councils

The course itself is wide ranging and allows each student to broaden their knowledge and better determine where and when their areas of interest lie

Amy Copping
Politics BSc
International Politics BSc

BSc ENTRY CRITERIA

GCE A-level BBB.
IB Diploma 30 points.
BTEC Level 3 Extended Diploma D*D*D in a related subject.
For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher.
In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

100% of the impact made from our Politics and International Studies research is considered world-leading or internationally excellent.

UCAS codes
Politics BSc
L200 3 years FT
L202 4 years TT
International Politics BSc
L240 3 years FT
L241 4 years TT
Politics and Economics BSc
LLC2 3 years FT
LL12 4 years TT
Politics and History BSc
LVG1 3 years FT
LVF1 4 years TT
Politics and Sociology BSc
LLH2 3 years FT
LL23 4 years TT

= full-time
TT = thick-sandwich

About the course
Politics at Brunel is a broad-based degree that offers a grounding in the different approaches and theories as well as options that focus on European, American and international politics, and political change.

International Politics provides a foundation in the approaches to, and theories of, politics and international relations and develops your understanding of relations of power in a globalising, but conflicted world.

Studying Politics enables students to address critical political questions such as Who has political power? Why do they have it? To whom are they accountable? In whose interest do they exercise it? What is globalisation? Is violent protest ever justified?

Teaching and assessment
Modules are taught by a mixture of lectures and seminars. Exact assessment patterns vary, but most are based on a combination of coursework and written exams.

Employability
You will develop your communications, report writing and presentation skills, equipping you well for your subsequent career. There are opportunities to gain essential IT skills and to learn or improve a foreign language.

Careers
Our Politics graduates pursue a wide variety of jobs. Some opt for careers in politics and the civil service, becoming MPs or working in the Foreign and Commonwealth Office or the Home Office. Others have joined GCHQ and military intelligence, or have gone on to work in public and private sector organisations such as the NHS, or international banks.

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Study abroad

As part of the ERASMUS exchange scheme our students have the opportunity to spend part of their degree at a European university. An exchange opportunity is also offered in China.

Placements

Students on the sandwich course have the opportunity to gain professional work experience in a variety of settings. Past students have worked at the Home Office, the Ministry of Justice, the Treasury, Constituency Offices of MPs, and for organisations such as the British Youth Council. In some cases students have been offered graduate positions within the organisations in which they undertook their work placements.

Typical modules

- Central Themes in Political Thought
- American Politics
- World Politics
- Modern British Politics
- Political Science Methods
- The Making of the Modern World
- Capital Labour and Power: Britain 1707-1939
- History, Memory and Culture in Europe since 1789
- Comparative Political Institutions
- International Relations
- Political Geography
- Democracy and Democratisation
- The State and Revolution
- Total War in the Modern Era
- Film and Politics
- History of Women’s Movements
- Public Policy Analysis
- Media and the Military
- Issues in American Politics
- US Foreign Policy: World War II to the end of the Cold War
- The Holocaust
- The Birth of Industrial Britain
- European Union Politics: Problems and Prospects
- Empire, Imperialism, Hegemony
- Monstrosity in Political Thought
- Fascism
- Globalisation and Governance
- Intelligence and National Security
- Marx and Marxism
- Media, Politics and Power in America
- Parties and Voters in the UK
- Theory and Practice of Cultural Diversity
- The Arab-Israeli Conflict
- The History and Politics of Heritage
- The Second World War
- Psychogeography
- Rethinking Modern Europe
- Borders, Nations and Identities since 1850
Psychology BSc

About the course
Psychology is often defined as the study of the mind and a person’s associated behaviours. This course emphasises the real-life significance of psychology by encouraging you to explore the relationship between practical and theoretical aspects of the subject.

Psychologists investigate a diverse range of topics through their research and theories, including the relationship between the brain, behaviour and subjective experience, human development, psychological disorders and their treatment and the ability to acquire, organise, remember and use knowledge.

We have a strong research reputation with particular expertise in areas such as neuropsychology, cognition, evolutionary, social, cross-cultural, developmental and health psychology.

BSc ENTRY CRITERIA

GCE A-level BBB (General Studies not accepted).

IB Diploma 30 points.

BTEC Level 3 Extended Diploma D*D*D* in a related subject.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject Access course with 45 credits at Level 3, of which 30 credits must be at Distinction and 15 credits at Merit or higher.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

Laboratory and technical facilities are available for experimental psychology, including brain imaging facilities and eye tracking.

This degree ensures that you gain an understanding of the breadth and diversity of the discipline whilst increasingly allowing you to specialise in areas of your own interest.

Teaching and assessment
Teaching methods include tutorials, seminars, laboratory classes and lectures. Students are assessed using a range of methods, including coursework assignments, poster presentations, oral and seen and unseen examinations.

Employability
Our students develop a range of transferable skills that are useful in the wider workplace as well as rigorous training in methodologies and research skills appropriate to
Psychology. You will acquire skills such as effective communication, the ability to understand and organise information, analyse and use complex data and retrieve and organise information from different sources, effective team work, planning and project management.

Careers
A good BPS accredited degree provides a basis for entering many psychological professions. You may go on to train as a clinical, educational, occupational or forensic psychologist. Other possible careers include work with adults or children with disabilities, counselling, personnel management, market research and advertising, prison and probation work, speech and language therapy and teaching, as well as psychological research.

Placements
The sandwich course includes two work placements. Placements can be either voluntary or paid. Settings range from hospitals, prisons, and research institutes to schools for children with severe psychological disorders and homes for elderly people. Placements allow you to gain valuable insights into different possible career paths, and they can enhance employment prospects.

Typical modules
- Learning and Social Psychology
- Applied Psychology
- Brain and Cognition
- Statistics
- Research Methods
- Evolutionary Psychology
- Historical and Conceptual Issues
- Advanced Research Methods
- Data Analysis
- Developmental Psychology
- Social Psychology
- Individual Differences
- Biological Psychology
- Cognitive Psychology
- Inter-Group Relations
- Practical Investigations of Mind and Brain
- Autistic Spectrum Disorder
- Clinical Psychology
- Cognitive Neuroscience of Consciousness
- Drugs, Hormones and the Brain
- Understanding Health
- Cross Cultural Psychology

My decision to opt for the thin-placement programme was due to my desire to gain a deeper understanding of my career options and to assess my suitability for them.

Alexandra Diaconu
About the course

This programme aims to enhance the professional nature of social work based on The College of Social Work’s Professional Capabilities Framework and the Health and Care Professions Council (HCPC) Standards of Proficiency. It seeks to positively shape students’ professional identity, developing confidence, self-efficacy and emotional resilience in the social work role. We support students to develop skills of active learning and critical thinking, research mindedness and literacy. The programme focuses on the centrality of relationship-based social work, with a commitment to social justice with practitioners who are able to combat racism, sexism and other forms of discrimination. The programme is organised in partnership with local authorities, private, voluntary and independent agencies, and service users and carers.

The programme derives its aims from the College of Social Work and Health & Care Professions Council’s requirements. It seeks to help students achieve the profession’s standards for Social Workers and the QAA Benchmark Statement for Social Work.

Recent groundbreaking research into comparative social work, community care, child development, and race and social work feed into our taught programmes, making them highly relevant and up-to-date. We have an active research centre, as well as an international reputation for our work in social policy.

You can use our first-rate facilities in the new, multi-million pound Health Studies Centre and will benefit from close links with social service and voluntary organisations. Seminars, tutorials and formal classes are integrated with professional practice, and theory is applied through the analysis of social issues.

You will work with client groups in the following fields: children and families, mental health work, older people and illness and disability. You will learn about Social Work methods including therapeutic work with individuals, family work, care management and group work.

BA ENTRY CRITERIA

GCE A-level BB, including Grade B in a Social Science subject (General Studies not accepted).

IB Diploma 30 points, including 5 in Higher Level Social Science subject.

BTEC Level 3 Extended Diploma DDD in a related subject.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Pass a related subject Access course with 45 credits at Level 3 and 15 credits at Level 2 with Merits in all units. Applicants aged 21+ are considered on an individual basis.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

Formal offers will only be made following attendance at a selection day.

Disclosure and Barring Service: All students undertaking this degree will be legally required to undertake a criminal records check with the Disclosure and Barring Service (DBS).

A wide variety of placements are offered from council social services departments to the Terrence Higgins Trust and Kids Company.
Accreditation

On the 1st August 2012, the renamed Health and Care Professions Council became responsible for the statutory regulation of social workers in England. All qualifying programmes, such as at Brunel, which were approved by the GSCC have automatically received transitional approval from the HCPC.

Teaching and assessment

Teaching methods combine seminars and tutorials with more formal classes. These emphasise the integration of social science subjects with professional practice and the application of theory to the analysis of social issues and problems.

Assessment in practice placements is continuous and culminates in the placement report, to which both student and practice teacher contribute. Academic work is assessed through a range of assignments including tests, presentations, essays and examinations.

Employability

Feedback from local employers has generally been very positive and reflected in high numbers of students obtaining employment following graduation: 77.3% of those surveyed six months after leaving Brunel in 2012 were working.

Students undertake 170 days of placement. In the first year students undertake 20 days skills development in preparation for direct practice at Level two. Students will work with two different service user and carer groups alongside a variety of organisations which include experience of statutory practice.

Careers

The course aims to produce competent practitioners who are able to work critically and professionally in combating racism, sexism and other forms of discrimination. Graduates work in a wide range of settings both in voluntary and statutory sectors.

Typical modules

- Introduction to Social Work
- Rights, Ethics and the Law
- Sociology
- Social Policy for Social Work
- Human Behaviour and Development
- Skills Development
- Service Users in a Community Context
- Managing Risk and Complexity
- Assessment, Planning Intervention and Review
- Understanding Evidence in Social Work Practice
- Inter-professional and Inter-agency Collaboration
- Social Research Methods
- Social Work with Children and Families
- Social Work with Adults
- Skills Development
- First and Final Placements
About the course

This programme enables social workers to enhance and develop their practice in the overall context of key national occupational standards and the revised specialist standards at the post qualifying level.

The objective of this course is to ensure that post-qualifying education and training improves the standard of social work practice by fully integrating academic and professional learning. We aim to develop well-rounded practitioners, confident about working in inter-professional and inter-agency contexts, who have demonstrated competence in a range of key areas including direct work with service users, families and carers, self-management and the use of supervision and mentoring and practice education.

The programme follows two pathways:
• Adults
• Children and Families

It covers all the units of the National Occupational Standards for Social Work in direct work with users of social care services and carers. It draws on knowledge and understanding of service users’ and carers’ issues to actively contribute to strategies and practice which promote service users’ and carers’ rights and participation, in line with the goals of choice, independence and empowerment.

You will learn to think critically about your own practice in the context of the General Social Care Council codes, including the embedded values and national and international codes of professional ethics and the principles of diversity, equality and social inclusion.

Using theories, models and relevant up-to-date research, you will learn to manage your own work effectively and demonstrate a capacity to plan for, and respond to, change in organisational, inter-organisational and team contexts.

A total of 90 credits is required for the award of the Graduate Certificate in Specialist Social Work. A total of 120 credits is required for the award of the BA in Specialist Social Work.

BA ENTRY CRITERIA

Recognised Social Work qualification (CSS, CQSW or DipSW) with a minimum of 240 credits or equivalent.

Current employment in direct practice as a social worker and registration with the General Social Care Council.

Candidates must provide satisfactory evidence that they are:
• suitable for post-qualification education
• able to work directly with service users including those from different backgrounds, of different ages, and with different needs
• likely to benefit from the programme
• capable of meeting the assessment requirements.

All candidates must be nominated and supported by their employing agency, which will undertake to provide support and appropriate learning opportunities.

Applicants with other qualifications and experience will be considered on an individual basis.

APL (Accreditation of Prior Learning) will be applied to credits gained on social work qualification courses, and will be considered on an individual basis for those who have already completed parts of the previous Post Qualifying Award in Social Work.

The University will apply a maximum to the number of credits for which APL will be granted. Successful applicants will not be permitted to register for the BA programme until they have gained the credits for the appropriate Consolidation module as Associate students, or have satisfied APL requirements for this module.

Applications are directly to Brunel from the web course page.
Teaching and assessment
You will be taught using a variety of methods including lectures, seminars, role-play, video, case discussions, practice, tutorials, eLearning, supervision and personal study.
Assessment methods include a critical career review, a case study, practice assessments and a research project.

Employability
The aim of the programme is to develop confident professionals who can reflect on their developing skills, raising the standards of practice. Many students feel that the course has increased their confidence and enabled them to move to the next level as senior practitioners and, subsequently, as managers.

Typical modules
Adults Pathway
- Critical Perspectives on Assessment and Direct Work with Adults
- Safeguarding Vulnerable Adults, Critical Decisions in Work with Adults: Law, Policy and Practice
- Working Together to Promote Independence, Well Being and Choice: Critical Perspectives on Multi-agency Working
- Assessment of Specialist Practice
- Enabling The Learning and Assessment of Others
- Research Project

Children and Families Pathway
- Critical Perspectives on Direct Work with Vulnerable Children, Young People and Families
- Safeguarding Children, Critical Decisions in Child Care: Law, Policy and Practice
- Working Together to Safeguard Children: Critical Perspectives in Multi-agency working
- Assessment of Specialist Practice
- Enabling The Learning and Assessment of Others
- Research Project
About the course

You will learn, both theoretically and via hands-on experience, how the communication and information media work. It is impossible to avoid communications media in today’s world and precisely because the media are so central to our existence, we tend to take them for granted and underestimate or ignore their social and cultural impact.

The aim of this course is to provide you with a mature, critical and sociologically-informed understanding of the place of the media in today’s society, with a particular focus on new communication and information technologies.

This course enjoys a close relationship with Sociology at Brunel, and particular attention is paid to the social and cultural dimensions of the media, especially the social and cultural consequences of new technologies of communication and information.

This is a broad-based degree which offers you the opportunity to specialise in areas of particular interest as well as the chance to gain experience in video editing and production. You will be encouraged to link the theoretical and practical components of the course as you engage in a broad-ranging sociological study of contemporary media.

Teaching and assessment

The course is taught through a mixture of lectures, seminars, tutorials, laboratories and small group projects. You will receive one-to-one supervision for your final year project.

Methods of assessment vary. Some courses are assessed on coursework only, some by seen or unseen examination.

BSc ENTRY CRITERIA

GCE A-level BBC.

IB Diploma 29 points.

BTEC Level 3 Extended Diploma DDD in a related subject.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass a related subject

Access course with 45 credits at Level 3 and 15 credits at Level 2 with Merits in all units.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.
only, and some by a combination of the two. Coursework may include written assignments and presentations.

**Employability**

Students will develop transferable skills that are useful in the workplace across a wide range of careers, such as research skills, critical thinking, broad commercial and cultural awareness of the media and creative industries, a flexible and creative approach to tasks, independent and team working. Rigorous training is provided in methodologies and research skills.

**Careers**

You can enter a wide variety of careers ranging from public relations and corporate communications to research and production work for video and television companies. Recent graduates now work in events and production co-ordination and research.

**Placements**

Students on our sandwich course have the opportunity to gain professional work experience in a variety of settings. Past placements have included work in TV, film and video production, advertising, the music business, local radio and public relations.

**Typical modules**

- Media Studies
- Film Production
- Media, Culture and Society
- Social and Cultural Research
- Social Enquiry
- Media, Culture and Representation
- Media Genres and Society
- Research in Practice
- Global Communication
- Understanding Audiences
- The Age of New Media
- City Lives and Urban Spaces
- Comedy, Culture and the Media
- Sociology of Health and Illness
- Body, Media and Society
- Forensic Science and Society
- Sport, Globalisation and International Politics

Contact Dr Hauke Riesch
course-enquiries@brunel.ac.uk
+44 (0)1895 265599

The Media Centre has state of the art filming and editing equipment; the team are professional and really fun to work with

Chloe Chesterman

We have first rate media facilities. You will have access to video recording equipment and industry-standard AVID video editing suites.
Sociology BSc

About the course
This degree is designed for those with a keen interest in all aspects of human behaviour and society and is concerned with developing theories that explain the changing nature of social behaviour in our own and other societies.

You will develop specific skills in the practical methods associated with sociology and will explore in depth the major issues and approaches within this and related disciplines.

A central theme of Sociology at Brunel is the study of the development of social change and transformation. Specific interests of Brunel sociologists include the public sphere, social theory, celebrity culture, the influence of the media, urban spaces, sport cultures, multiculturalism and comedy cultures.

This is a broad-based degree which enables you to specialise in areas which particularly fascinate you, such as health and illness, deviance, social theory, the media and culture, race and ethnicity, and the sociology of urban spaces.

Teaching and assessment
The course is taught through a mixture of lectures, seminars, tutorials, small group projects and practicals. You will get one-to-one supervision for your final year dissertation. Courses are assessed using a combination of coursework and seen or unseen examination.

Employability
We aim to produce graduates who have a number of transferable skills including a solid training in the skills, methods and
perspectives relevant to thinking critically about contemporary social processes, an ability to relate the discipline of sociology to real world concerns to facilitate and enhance critical social practice and grounding in understanding information and communications technologies and processes. Knowledge and understanding of statistics and research skills are particularly useful.

Careers
Sociologists are in increasing demand in many sectors such as social welfare and policy, local government and administration, medicine, education, research, and industry. There are also openings in business, particularly marketing and advertising, management, media, and recruitment. Sociology graduates can be found in a diverse range of careers, including consultancy, lobbying, teaching, campaigning and fundraising to name just a few.

Placements
Students on our sandwich degree course benefit from our excellent links with external organisations. Past placements have included work in schools, advice centres, TV, film and video production, advertising, the music business, local radio and public relations.

Typical modules
• Introduction to Sociology
• Globalisation
• Social and Cultural Research
• Media, Culture and Society
• Social Enquiry
• Social Divisions
• Issues in Contemporary Culture
• Research in Practice
• Media Genres and Society
• City Lives and Urban Cultures
• Comedy, Culture and the Media
• Body, Media and Society
• Forensic Science and Society
• Ethnicity, Culture and Identity
• Sociology of Health and Illness
• Science, Technology and Society
• Understanding Audiences
• The Age of New Media
• Sport, Globalisation and International Politics
• Multiculturalism
About the course

Our courses encourage you to explore current issues related to sport, health and exercise sciences and to examine the relationship between theory and practice. You can follow a specialisation or continue to follow the broad, multidisciplinary route.

The Coaching pathway explores pedagogy, coaching theories and techniques, effective coaching principles, understanding the performer, skill acquisition and motor learning. It also includes sport-based practical sessions.

The Human Performance pathway allows you to study anatomy, physiology, biomechanics, sport psychology, and professional practice and includes laboratory-based practical sessions.

The Sport Development pathway covers sport and event management, sport development, sociological theory, sport policy, international perspectives, and sociology and the media.

Our high teaching standards are matched by lecturers’ friendliness and approachability. Our new programmes meet the needs of not only our students but employers too.

Dr Daniel Bishop

The Physical Education and Youth Sport pathway develops knowledge about pedagogy, physical literacy, understanding the learner, skill acquisition and motor learning, youth and educational policy and professional practice.

Sport, Health and Exercise Sciences with Business Studies provides an informed understanding of business and management within the sports industry.

Teaching and assessment

We deliver our courses through lectures, tutorials, workshops, practicals, computer-assisted sessions and seminars. Assessment methods include individual and group projects, presentations, essays, case studies, examinations and laboratory reports.

Placements

All courses are offered with the option of a Placement Year to give you an opportunity to apply knowledge of theory to real-life situations. Recent placements include Chelsea FC, West Ham FC, County Councils and Streetgames.
Employability

Our courses provide a range of opportunities for students to enhance their employment prospects such as summer placements, modules in coaching and physical education, careers fairs, internships, Local Authority summer camps, volunteering and more.

Careers

We prepare you for a range of careers in sport-related jobs such as coaching, consultancy, fitness testing and training, higher education and research, sport development, sport management, teaching and youth work. Graduates have found positions with the UK and regional Sports Councils, national governing bodies for sport, international organisations, sports clothing companies, professional sport clubs and local authorities.

Typical study blocks

- Fundamentals of sport, health and exercise sciences
- Physical activity, health and wellbeing
- Social sciences of sport
- Physical education and sport pedagogy
- Physical activity and health in the Lifecourse
- Applied sport and exercise physiology
- Biomechanics of human movement
- Applying Sport Sciences to practice: Coaching effectiveness
- Socio-political and economic context of sport
- Sport and social justice
- Delivery of sports development
- Physical literacy and performance
- Pedagogy and policy
- Issues in physical activity, health and wellbeing
- Physiology of the high-performance athlete
- Biomechanical analysis techniques
- Professional practice based learning
- Applying Sport Science to practice: Training principles
- International perspectives of sports development
- Sporting cultures
- Sporting communications
- Physical literacy
- Physical education and sport pedagogy

Ewan Tuohy

My placement role at Lucozade Ribena Suntory is very diverse and I have been involved in many different projects ranging from new product development to internal education programmes.

Excellent sports facilities including a running track used by Usain Bolt every summer

Ranked number one in London by The Complete University Guide

Contact Julie Garner

CHLS TPO•Lifesciences@brunel.ac.uk

+44 (0)1895 266471
About the course
This programme creates critically aware and cutting-edge theatre practitioners for the creative industries, the education sector and community-based practices. The degree is taught in the purpose-built Antonin Artaud Performance Centre which houses a fully equipped main theatre, two studio theatres, as well as a suite of rehearsal and recording studios.

Through the course you will acquire knowledge of theoretical concepts and practical approaches relevant to the study of theatre as a live medium, with an emphasis on both history and contemporary practices. You will develop key skills needed in artistic production processes specialising in one or more of the following: writing, directing, acting, devising, applied drama or digital practice. These skills are delivered through the following seven strands: Acting, Applied Theatre, Directing, Musical Theatre, Physical Theatre, Digital Performance and Writing. In addition the Perspectives strand will train you to develop critical thinking and theoretical languages with which to discuss theatre.

Teaching and assessment
You will prepare for work in the creative industries, education or for further research by developing skills including leadership, self and group management, initiative, personal responsibility and communication. You will work independently and with others and will deploy the skills necessary to produce a theatre performance and/or an applied drama project.

Teaching environments include lectures, seminars, individual tutorials, workshops, practical classes, master classes, rehearsals, screenings and theatre visits, work placement and public performance.

You will engage in a range of practical assessment methods such as public performances, work-in-progress showings, workshops and presentations. Written submissions take the form of academic essays, reflective journals, critical blog posts and full-length...
plays. You will be taught to view the relationship between practice and theory as mutually reliant and beneficial.

Employability
Alongside the dedicated third year module Professional Experience and Personal Development, which requires every student to undertake a professional placement in your area of interest, you will have the opportunity to engage in other creative industries focused events. You will gain experience of planning and managing projects from scratch to delivery in front of an audience, managing a production budget, liaising with external organisations, using initiative, designing for specific audiences and working in the community. The programme will also enable you to develop CV and cover letter writing skills.

Careers
Potential graduate destinations include creative positions within the theatre industry, management and administrative positions within the creative industries, community based careers in applied drama practice, educational work either in schools or in the growing number of education departments attached to theatres, and postgraduate study.

Placements
The team has well-established links with theatre venues and companies to help find the right work placement for you. As well as gaining valuable experience of a professional environment you will be given opportunities to plan your future and gain the tools necessary to feel confident when applying for jobs and internships. Recent examples of work placements include working as a puppeteer, script reader and assistant stage management.

 Typical modules
- Perspectives: Theory and Performance Analysis
- Ensemble Production
- Acting: Essential Skills
- Applied Drama Practice: an Introduction
- Digital Performance
- Directing
- Playwriting
- Practice as Research
- Acting: Beyond Naturalism
- Applied Drama Practice: Project
- Physical Theatre: Performance and Embodiment
- Musical Theatre
- Advanced Musical Theatre
- The Canon Reloaded
- Professional Experience and Personal Development
- Written Dissertation
- Final Production (Practical Dissertation)

The combination of lectures, practical modules and rehearsal time makes for a very interesting mix!

Danaelle Cambrook
About the course

Our Engineering with an Integrated Foundation Year course will help you build on existing qualifications in relevant subjects such as Maths and Physics in order to pursue your ambition of becoming a world class engineer.

You will take modules from a range of subjects relevant to the area you want to enter, together with study skills, individual and group project work and practical techniques.

On successful completion of the year, you may progress to the first year (Level 1) of your chosen Brunel Engineering degree programme. Progression is solely dependent upon satisfactory achievement of the required grades for your chosen course.

Project work

There will be two one-week project breaks. You will gain practical knowledge of control systems, designing models, analysing design and calculating various physical parameters.

ENTRY CRITERIA

GCE A-level CCC, including Maths or Physics (General Studies and Critical Thinking not accepted).

IB Diploma 27 points, including 4 in Higher Level Mathematics or Physics.

BTEC Level 3 Extended Diploma DDM in an Engineering-related subject.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass Access to Engineering or Science course with 45 credits at Level 3 with Merit or higher in all units.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

Typical modules

- Mathematics
- Physics
- Engineering Science
- Materials Science
- Communications, Projects and Electronic Engineering

Teaching and assessment

As well as lectures and seminars, you will learn through hands-on practical experience. Theoretical subjects such as Maths, Physics and Engineering Science are mainly assessed by exam. Skills-based subjects such as Engineering Projects and Communications are assessed by coursework, presentations and lab reports.

Careers

Graduates with degrees for which this Foundation year acts as a first step are always in high demand. Students who went on to successfully complete our MEng/ BEng programmes now work for companies including Rolls-Royce, GE Energy, Airbus and British Airways.
Information Systems, Computing and Mathematics with an Integrated Foundation Year

ENTRY CRITERIA

GCE A-level CDD, preferably including Maths and Physics.

IB Diploma 25 points.

BTEC Level 3 Extended Diploma DMM in a related subject.

For BTEC Level 3 and A-level combinations see the course web page.

Access to HE Diploma Complete and pass Access to Engineering, Computing or Science course with 45 credits at Level 3 and 15 credits at Level 2.

In addition 5 GCSEs or equivalent at Grade C or above, to include English and Maths, are required.

Typical modules

• Study Skills
• Discrete and Decision Mathematics
• Mathematical Methods
• Introduction to Computers and Programming
• Statistics
• Teaching and Assessment

Teaching methods include lectures, tutorials and computer workshops. You will be assessed by examination and coursework, including short tests and project work.

Careers

People who have good technical or scientific qualifications, as well as imagination, enthusiasm, communication and organisational skills, are always in great demand. A wide variety of interesting and well-paid career opportunities are available.