

## Chemical engineering course guide

Chemical, biochemical and process  
engineering undergraduate courses  
in the UK and Ireland

Please check the accreditation status of individual courses with the relevant university or with Engineering Council at [www.engc.org.uk/education-skills/course-search/acad](http://www.engc.org.uk/education-skills/course-search/acad)

The courses in this document are listed alphabetically by university:

- **University of Aberdeen**
- **Aston University, Birmingham**
- **University of Bath**
- **University of Birmingham**
- **University of Bradford**
- **University of Cambridge**
- **University of Chester**
- **Cork Institute of Technology**
- **University College Cork**
- **University College Dublin**
- **University of Edinburgh**
- **University of Greenwich**
- **Heriot-Watt University, Edinburgh**
- **University of Huddersfield**
- **University of Hull**
- **Imperial College, London**
- **Lancaster University**
- **University of Leeds**
- **University of Limerick**
- **University College London – Biochemical engineering**
- **University College London – Chemical engineering**
- **London South Bank University**
- **Loughborough University**
- **University of Manchester**
- **Newcastle University**
- **University of Nottingham**
- **University of Oxford**
- **Queen Mary University of London**
- **Queen’s University, Belfast**
- **University of Sheffield**
- **Sheffield Hallam University**
- **University of Strathclyde, Glasgow**
- **University of Surrey**
- **Swansea University**
- **Teesside University**
- **University of the West of Scotland**
- **University of Wolverhampton**

# University of Aberdeen

*Aberdeen is at the heart of the energy industry in Europe and of international importance as a centre of excellence in exploration and production of oil and gas. The combination of these factors makes it possible to offer a curriculum that is both influenced by the cutting-edge research of our academics and highly relevant to the needs of employers. Our MEng/BEng Chemical Engineering Degree Programmes deliver the learning outcomes required of any general Chemical Engineering degree programme giving our graduates the opportunity to find employment across the broad spectrum of Chemical Engineering employers. Our location in Aberdeen, the energy capital of Europe, and our engagement with local industry means that our students have the opportunity to engage with the local upstream oil and gas industry from the moment they embark on their studies. The lectures, tutorials, workshops and laboratories within which the programmes are delivered are supported by site visits and contributions from collaborators in industry.*

## Courses

### Chemical Engineering

- **BEng(Hons): 4 years full-time**
- **MEng: 5 years full-time**

## Entry requirements

An SQA Higher or GCE A-Level or equivalent qualification in Chemistry is required for entry to Year 1.

### **BEng**

- 4 SQA Highers at ABBB. AB in Maths and in Physics and/or Technological Studies at B
- 3 GCE A-Levels at BBB. B in Maths and in Physics/Design and Technology/Engineering
- Standard Grade at levels 1, 2, or 3 in English/ GCSE in English at C.

### **MEng**

- 4 SQA Highers at AABB. AB in Maths and in Physics and/or Technological Studies at B
- GCE A-Levels at BBB. B in Maths and Physics/Design and Technology/Engineering
- Standard Grade at levels 1, 2, or 3 in English/ GCSE in English at C.

Please note that achieving the minimum entrance requirement will not guarantee an offer of admission. We have many more applicants than places, and most meet our minimum entrance requirements.

**Admissions tutor:**

Dr Andrew Starkey

**Prospectus:**

[www.abdn.ac.uk/prospectus/ugrad](http://www.abdn.ac.uk/prospectus/ugrad)

**Website:**

[www.abdn.ac.uk/engineering](http://www.abdn.ac.uk/engineering)

# Aston University, Birmingham

*Our modern, purpose-designed labs and teaching facilities include excellent IT facilities and a well-equipped pilot plant area. Tailored computing courses and self-tuition packages ensure the development of IT and word processing skills required by the modern chemical engineer or chemist. All computer workstations are linked by the University's Local Area Network, which in turn connects to worldwide networks.*

## Courses

### Chemical Engineering

- BEng(Hons) 3 years full-time
- BEng(Hons) 4 years sandwich
- MEng(Hons) 4 years full-time
- MEng(Hons) 5 years sandwich

## Entry requirements

- three A-levels to include Chemistry, preferably Maths, and one other.
- typical offer BEng: BBB-ABB, MEng: AAB-AAA
- Physics or other relevant A-levels are acceptable as the third subject. Two AS-levels may replace one A-level.

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# University of Bath

*The University of Bath provides a modern industry-focused curriculum using state-of-the-art facilities, in the exceptional location that is the World Heritage City of Bath. The degrees are focused on strong fundamentals in science and engineering applied to industrial practice. Bath provides students with a challenging and exciting environment to develop their problem-solving skills that are characteristic of good chemical engineers. The programmes are innovative, flexible, and have very strong chemical and biochemical engineering design components in every year of study. Bath has excellent industrial links that contribute to the learning experience throughout the course. A consequence of our industrial links is that a large proportion of students (around 70%) go on a salaried placement year in industry, and a high percentage of these are offered graduate jobs by the placement company. The Department has a close-knit student community coupled with friendly, enthusiastic and approachable staff. All these factors contribute to our degree programmes successfully preparing students for the most highly sought-after graduate jobs.*

## Courses

### Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years sandwich**
- **MEng(Hons) 4 years full-time**
- **MEng(Hons) 5 years sandwich**

## Entry requirements

- three subjects at A-level including Maths and Chemistry
- usual grades required: A\* (either in Maths or Chemistry) AA for MEng and BEng
- other qualifications such as International or European Baccalaureate, Irish and Scottish Highers, Foundation Year are also eligible – please enquire. We do not accept General Studies or second language courses studied in the first language.

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# University of Birmingham

*The School of Chemical Engineering is home to one of the largest concentrations of chemical engineering expertise in the UK. It has a history of excellent community spirit and we are very proud of how friendly it is. The school's prestigious reputation is reflected in our top 5 rating in the last Research Assessment Exercise (2014) and achieves consistently high ratings in academic and National Student Survey (NSS) league tables; the school is currently third in the Guardian League Table.*

*Teaching comes from lecturers who are global experts in their field, together with leading-edge teaching facilities and laboratories, our state of the art computer cluster and e-learning suite to enhance your learning experience. The courses are delivered as lectures, small group workshops, enquiry-based learning activities, computer sessions, laboratories and tutorials. A strong emphasis is placed on project work (design and research projects) in years three and four.*

*You will graduate with the skills required in today's fast-changing marketplace. Previous graduates are enjoying successful careers as chemical engineers in the oil, chemical, pharmaceutical, energy, biotechnological, and food and drink sectors, as well as non-traditional roles such as accountancy, in the City or in IT industries.*

## Courses

### 1. Chemical Engineering

- BEng 3 years full-time
- MEng 4 years full-time

### 2. Chemical Engineering (International Study)

- MEng 4 years full-time

### 3. Chemical Engineering with Industrial Study

- BEng 4 years full-time
- MEng 5 years full-time

### 4. Chemical Engineering with International and Industrial Study

- MEng 5 years full-time

### 5. Chemical Engineering Foundation Year

- 1 year full-time

## Entry requirements

- AAA\*/AAAA for MEng and BEng courses from 3 A-levels to include Maths and Chemistry. International Baccalaureate (IB) >32 points, 7,6,6 at Higher Level including Maths and Chemistry at Higher Level grade 6. (Statistics modules are not preferred. If statistics is offered, applicants should also offer AS level Physics. An offer would not include general studies).
- other alternatives such as Scottish Highers, CSYS, International and European Baccalaureates are welcomed for entry. Please see web pages for more information.
- Foundation Year courses are provided by the School for those candidates who do not possess relevant qualifications for entry, if sufficient grades are achieved. Entry

requirements are BBB at A-level, with grade A at GCSE Maths and Double Science or 30 points for the IB.

- in courses listed as numbers 2 and 4 above, a language option is available in French, German, Spanish, Japanese or Russian (other languages may also be offered).
- please visit the department's website for more information on selection of course codes and entry criteria: [www.birmingham.ac.uk/chemical](http://www.birmingham.ac.uk/chemical)

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**the guardian**  
University Guide 2018



# University of Bradford

*The Bradford Faculty of Engineering & Informatics is research and industry led, offering accredited undergraduate, postgraduate and research degrees.*

*The University of Bradford proudly boasts a Chemical Engineering department that has over the years become recognised in the UK for its innovative engineering research, multidisciplinary approach to teaching, strong industry links and excellent graduate employability. At Bradford, we keep our programmes relevant to the ongoing needs being met by industry and society whilst also teaching traditional disciplines of chemical engineering; oil, gas and petrochemical production. The courses also build on areas of advanced materials engineering, food & pharmaceutical engineering, desalination, polymer engineering and powder technology; all based on the excellent research taking place at the University.*

*Your studies at Bradford will be a foundation for life aimed at developing a deep understanding of fundamental and advanced technical principles, analytical tools, and competence in their application together with a wide range of management, personal and professional skills.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years full-time**
- **MEng 4 years full-time**
- **MEng 5 years full-time**

### 2. Engineering Foundation Year- leading to Chemical Engineering

- **BEng(Hons) 1 + 3 years full-time**

## Entry requirements

- typical offer (UCAS tariff points): 112
- to include A-level Maths and Chemistry
- for Engineering Foundation Year entry students require 88 UCAS tariff points to include AS-level Maths or Physics
- GCSE English and Maths minimum grade C. Minimum IELTS at 6.0 or the equivalent.

**Enquiries:** [enquiries@bradford.ac.uk](mailto:enquiries@bradford.ac.uk)

**Email:** [r.patel@bradford.ac.uk](mailto:r.patel@bradford.ac.uk)

**Website:** [www.brad.ac.uk/ei/engineering](http://www.brad.ac.uk/ei/engineering)



# University of Cambridge

*The Cambridge Chemical Engineering course is designed to produce graduates that meet the needs of modern industry, both in terms of technical competence and in terms of personal and transferable skills. It is supported by a consortium of 10 industrial companies who play an important role in course design and assisting with some aspects of the teaching.*

*In the first year of the course students choose to study either General Science or General Engineering. Students then specialise in Chemical Engineering for years 2, 3 and 4. The main Design Project takes place at the end of year 3. The 4<sup>th</sup> year includes a Research Project together with many optional topics.*

## Courses

### Chemical Engineering

- BA 3 years full-time
- MEng 4 years full-time

## Entry requirements

- the normal offer is A\*A\*A at A-level (or equivalent qualification), though other offers are made depending on the individual circumstances of the applicant
- Maths and Chemistry at A-level are essential for chemical engineering regardless of first year course chosen. Physics at A-level is also essential for chemical engineering applicants via the engineering route
- admission is via application to one of the Cambridge Colleges, or via an open application. The University Prospectus may be viewed online at [www.study.cam.ac.uk/undergraduate](http://www.study.cam.ac.uk/undergraduate)
- the Admissions Officer of the Department will gladly answer enquiries. Open days for prospective applicants are organised by the departments and also by each college – details can be found in the prospectus or on the Department website: [www.ceb.cam.ac.uk](http://www.ceb.cam.ac.uk)

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# University of Chester

*The Department of Chemical Engineering is located on Thornton Science Park, a centre for state-of-the-art teaching and research offering a unique blend of industry and academia. Previously home to a Shell UK research centre, the site's takeover by the University allows academic and industrial researchers to continue the tradition of world-class innovation and research on a site at the heart of the North West chemical industries.*

*Students benefit from outstanding laboratories furnished with modern equipment, as well as our close links with a wide range of industrial and commercial partners, both on-site and nearby. Our goal is to provide our students with professional skills and a unique educational experience on a site where cutting-edge industrial research is taking place. We offer a friendly and supportive atmosphere to help students develop the potential to become leaders in their areas. All students have the opportunity to complete work placements during their degree.*

*Engineering library facilities are excellent, both on the Thornton engineering site and on the Chester Campus, where engineering students have their accommodation and recreational facilities. Transport to and from the Thornton site is provided free-of-charge by the University.*

*The University of Chester has a 175-year history of innovation and creativity in teaching, learning and research and we are committed to achieving excellence and employability for students registered on our undergraduate and postgraduate programmes.*

## Courses

### Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **MEng(Hons) 4 years full-time**

## Entry requirements

- BEng/MEng: 112/120 UCAS tariff points from A-level or equivalent
- A2 level (minimum grade C/B for BEng/MEng) Chemistry and Maths or equivalent
- other: Access to HE Diploma (Maths at Level 3), International Baccalaureate (28 points incl 5 in Maths).

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# Cork Institute of Technology (CIT)

*Our graduates hold engineering and management positions in major Irish based and international companies and many have progressed to senior positions in these organisations.*

*The degree course at CIT qualifies the graduate for many different career opportunities. These include process and equipment design for a wide range of industries. They also include management of the safe, environmentally acceptable, and efficient operation of production facilities for these industries.*

## Courses

### Chemical and Biopharmaceutical Engineering

- BEng(Hons) 4 years full-time

## Entry requirements

- the official entry standards are a minimum of a Grade C3 in two higher-level subjects in the Irish Leaving Certificate Examination, one of which must be Maths, and a minimum of a Grade D3 in four other subjects. One of these six subjects must be either Irish or English.
- selection of students is by applying a points system to the results obtained by the student in six subjects in the Leaving Certificate Examination. In 2010 for example, our intake had an average of 440 points of a possible maximum of 600.
- a modified points system can be applied to A-level results or Scottish Highers, with the proviso that Maths and a science subject must be included with Grade C or above.

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<b>Website:</b>	<a href="http://www.cit.ie">www.cit.ie</a>

# University College Cork (UCC)

*The four year Bachelor of Engineering (BE) in Process and Chemical Engineering at UCC provides graduates with an opportunity to develop a full set of skills required to help address the 21<sup>st</sup> Century challenges that will confront both chemical engineering and society at large as indicated by IChemE's Roadmap for 21<sup>st</sup> Century Chemical Engineering. The programme was awarded the 2016 IChemE Sustainability Teaching Award in recognition of a programme ethos which promotes a sustainability-informed perspective as the context within which contemporary chemical engineering is practiced. As well as covering the core competencies of chemical engineering, and specialist elective streams in either 'Pharmaceutical & Biopharmaceutical' or 'Energy & Environmental', the programme includes modules on key topics such as professional ethics, sustainability, risk and safety, technical communication skills, innovation and creativity, food and bioprocessing and supply chain management. The Department of Process and Chemical Engineering also offers taught courses at Certificate, Diploma, and Master's level, and a full research degree programme offering MEngSc, MSc and PhD programmes.*

## Courses

### Process and Chemical Engineering

- BE(Hon) 4 years full-time

## Entry requirements

- the selection of students who enter via the Irish Leaving Certificate route is administered by the Central Applications Office in the Republic of Ireland. Students are awarded points based on results obtained in six subjects in the Leaving Certificate Examination (see [www.cao.ie](http://www.cao.ie))
- the minimum entry standards are HC3 in two subjects and passes in four other subjects at H/O level in the Leaving Cert including Irish, English, Maths, one lab science subject and one other subject recognised for entry purposes, as well as a HC3 in Maths or applied Maths. (If the HC3 is in applied Maths, a HD2 in Maths is also required)
- a modified points system can be applied to A-level results, with the proviso that Maths and a science subject must be included with Grade C or above.

**Admissions tutor:** Professor Edmond Byrne

**Email:** [processeng@ucc.ie](mailto:processeng@ucc.ie)

**Tel:** 00353 21 490 2389/3094

**Website:** [www.ucc.ie/processeng](http://www.ucc.ie/processeng)

# University College Dublin (UCD)

*For more than 60 years, UCD has led the way in the design and delivery of innovative, internationally-recognised programmes in Chemical and Bioprocess Engineering. Our graduates are amongst the best-paid engineering professionals, sought after for employment in sectors from chemical to (bio)pharmaceutical and from energy to consultancy and design. UCD offers taught and research Masters and PhD opportunities, and our graduates also enter Masters and PhD programmes in leading international universities.*

*In addition to IChemE masters-accredited BE in Chemical & Bioprocess Engineering, UCD has recently introduced the first 5-year Integrated Masters (ME) programme in Chemical & Bioprocess Engineering in Ireland, which includes 6 to 9 months of Professional Work Experience (PWE), extendable to 12 months. In addition, for those wishing to gain a greater specialisation in biochemical engineering, we are also offering a pathway for obtaining a minor in Biochemical Engineering. Both these programmes have been designed to reflect the emerging skills needs of Chemical and Bioprocess Engineers in global industries, including chemicals, pharmaceuticals, biotechnology, food, energy, advanced materials and ICT.*

*Our programmes will prepare graduates for careers in a wide range of industries, while also offering the opportunity to work alongside leading researchers in world-class laboratories. The School works closely with its industrial advisors and adjunct staff to ensure that our programmes meet the highest international standards in the teaching and training of Chemical & Bioprocess Engineers, including professional accreditation.*

## Courses

### 1. Chemical and Bioprocess Engineering

- 4 year BE programme
- 5 year integrated ME programme (graduating with both BE and ME degrees)

### 2. Chemical Engineering with Biochemical Engineering Minor

- 4 year BE programme
- 5 year integrated ME programme (graduating with both a BE in Chemical Engineering with Biochemical Engineering Minor and ME in Chemical and Bioprocess Engineering)

## Entry requirements

For comprehensive details of entry requirements, please go to [www.myucd.ie/](http://www.myucd.ie/) and select 'Applying to UCD' from the main panel. The displayed page provides links to details of entry requirements for both national and international students for all courses in University College Dublin. Engineering has a common entry route into 1<sup>st</sup> Year (Stage 1) with CAO Course Code **DN150**.

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<b>Tel:</b>	00353 1 716 1827
<b>Website:</b>	<a href="http://www.ucd.ie/chembioeng">www.ucd.ie/chembioeng</a>

# University of Edinburgh

*Chemical engineering at Edinburgh is a medium sized department, well rated for its research and teaching. Teaching staff are active in a broad range of research areas and have extensive industrial links, directly benefiting undergraduate teaching. Students have the opportunity to either spend 6 months in industry or to work in a research group in the university as part of the MEng programme. Staff research feeds directly into teaching in areas such as nanotechnology, carbon capture, fluid mechanics, reaction engineering and multi-scale modelling. Facilities include extensive computing resources and recently refurbished undergraduate laboratories. Visits to industry and visits from industrial engineers help to maintain our close links with potential employers.*

## Courses

### Chemical Engineering

- BEng(Hons) 4 years full-time
- MEng 5 years full-time

## Entry requirements

All courses may be entered at the first or second year depending on the qualifications presented by the applicant.

For full details on Edinburgh's entry requirements please visit:

[www.ed.ac.uk/studying/undergraduate/degrees/index.php?action=programme&code=H804](http://www.ed.ac.uk/studying/undergraduate/degrees/index.php?action=programme&code=H804)

BTEC, European Baccalaureate, access courses and other qualifications are all welcome: enquire for details.

Please note that it is a University requirement that all entrants meet a minimum standard of written and spoken English. This requirement may be met by a pass in English at Standard Grade, GCSE or equivalent or achieving the University's minimum requirements for English Language tests such as, for example, IELTS.

**Email:** [ugenquiries@eng.ed.ac.uk](mailto:ugenquiries@eng.ed.ac.uk)

**Tel:** 0131 650 7352

**Website:** [www.eng.ed.ac.uk](http://www.eng.ed.ac.uk)

# University of Greenwich

*As the pressing needs of the world gradually shift toward the sustainable supply of energy and raw materials, preservation of natural resources and the environment, and targeted delivery of services and products, new opportunities arise for chemical engineers.*

*These degree courses offer students a range of industrial chemical manufacturing and processing technologies with the inclusion of industrial planning, powder handling and storage, safety and social impact considerations. Process safety, risk and safety tools will be a theme that infuses the whole degree from start to finish. This course has been designed in collaboration with the IChemE and accreditation from this professional body will be sought at the earliest opportunity.*

*Academic and industry experts will cover a wide range of subject areas relevant to cutting-edge research, new technologies, and emerging growth areas in chemical engineering. Subject areas covered include: engineering science and fundamentals, separation, particle technology, catalysis and reaction engineering, management, sustainability and process design, pharmaceutical discovery and development, food and beverage and bioengineering.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years sandwich programme**
- **BEng(Hons) 6 years part time**
- **MEng 4 years full-time**
- **MEng 5 years sandwich programme**
- **MEng 8 years part time**

### 2. Chemical Engineering (Extended)\*

- **BEng(Hons) 4 years full-time**
- **BEng(Hons) 5 years sandwich programme**
- **BEng(Hons) 8 years part time**

\* The BEng(Hons) Extended programme is identical to the BEng(Hons) programme but also includes a foundation year.

## Entry requirements

### **MEng:**

- UCAS points: 136 Points. 32 points should come from Maths, a physical science or a numerate subject at A2 level.

### **BEng(Hons):**

- UCAS points: 120 Points. 32 points should come from Maths, a physical science or a numerate subject at A2 level.

**Extended BEng(Hons):**

- UCAS points: 64 Points. The points should come from Maths, a physical science or a numerate subject at A2 level.

Alternative qualifications are also considered, including National Diploma. National Diploma applicants that have also successfully completed the additional, core Maths modules and the extended project (Technical Baccalaureate) are specifically encouraged to apply.

Applications from mature students also welcomed.

**Admissions tutor:**

Dr D I Armour- Chélu

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# Heriot-Watt University, Edinburgh

*The Department of Chemical Engineering is a unique environment, offering a range of educational programmes, research services and opportunities right across the spectrum of chemical engineering. The Department offers a lively learning environment for both undergraduate and postgraduate study; we operate in some of the finest purpose-built modern engineering premises, in one of the most vibrant and attractive cities in the UK.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 4 years full-time**
- **MEng 5 years full-time**

### 2. Chemical Engineering with Diploma in Industrial Training

- **BEng(Hons) 5 years with DIT**
- **MEng 6 years with DIT**

### 3. Chemical Engineering with Energy Engineering/with Diploma in Industrial Training

- **MEng 5 years full-time**
- **MEng 6 years with DIT**

### 4. Chemical Engineering with Oil and Gas Technology/with Diploma in Industrial Training

- **MEng 5 years full-time**
- **MEng 6 years with DIT**

## Entry requirements

First Year Entry minimum requirements:

- SQA Highers – AAAB
- A-levels – BBB

Second Year Entry minimum requirements:

- SQA Advanced Highers – AAB in Maths and Chemistry
- A-levels – AAB

In all cases, the qualifications should include Maths and Chemistry. Additionally, Physics is strongly advised at least at National 5, GCSE or equivalent. Other qualifications considered include HNC/HND and the International and Scottish Baccalaureate. Applicants may be considered with a range of alternative qualifications. Please contact the Admissions Tutor to discuss.

**Admissions tutor:**

Dr Alexander Bell

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[chemeng@eps.hw.ac.uk](mailto:chemeng@eps.hw.ac.uk)

**Email for prospectus:**

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**Tel:**

0131 451 4100

**Website:**

[www.hw.ac.uk/undergraduate/discipline/chemical-engineering.htm](http://www.hw.ac.uk/undergraduate/discipline/chemical-engineering.htm)

# University of Huddersfield

*Here at Huddersfield we have a long tradition of teaching and research in the chemical sciences and chemical engineering, dating back as far as the 1840s when the School was a centre for colour Chemistry, supporting the textile and dyeing industries in the area. The modern Department of Chemical Sciences has a vibrant teaching and research environment in the areas of chemical engineering, Chemistry, biotechnology and pharmaceuticals.*

*We offer a range of chemical engineering degrees, including Chemical Engineering BEng(Hons) and Chemical Engineering MEng(Hons). These are complemented by our Chemistry degrees that have chemical engineering specialisms, including Chemistry with Chemical Engineering BSc(Hons) and Chemical Engineering and Chemistry BSc(Hons). All of our chemical engineering degree courses have a strong emphasis on Chemistry, bridging the gap between these two important disciplines, and on practical skills. Our teaching staff are educated to doctoral level in their respective subject areas and are research active. You'll be taught in cutting-edge labs for you to gain hands-on experience using modern and high-tech equipment as used in industry and research.*

*Our courses also offer an optional placement year in industry. This allows you to see your subject in action in the real world and to gain valuable experience, which can help to enhance your employability after graduation. We aim to provide you with the key knowledge and transferable skills required to enable you to play a vital role in a range of industries where the areas of Chemistry and chemical engineering meet.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons): 3 years full-time/4 years inc. placement year**
- **MEng: 4 years full-time/5 years inc. placement year**

### 2. Chemical Engineering and Chemistry

- **BSc(Hons): 3 years full-time/4 years inc. placement year**

### 3. Chemistry with Chemical Engineering

- **BSc(Hons): 3 years full-time/4 years inc. placement year**

## Entry requirements

### **BEng(Hons):**

- A-levels: BBB including Chemistry and Maths
- UCAS points: 120 including a B in Maths and B in Chemistry or Physics

### **MEng :**

- A-levels: AAB including at least a B in Maths and B in Chemistry or Physics
- UCAS points: 136 including at least a B in Maths and B in Chemistry or Physics

### **BSc(Hons):**

- A-levels: BBB with a minimum grade C in Chemistry and Maths
- UCAS points: 120 with a minimum grade C in Chemistry and Maths
- BTEC: DDM in applied science. Alternatively, a BTEC health and social care/medicinal science is acceptable but must be accompanied by an A Level in Chemistry.

**All courses :**

- we consider all applications individually.
- if you do not have the appropriate qualifications for direct entry to these degrees you can apply to our Science Extended Degree. Successful completion of this Year 0 course guarantees progression onto these courses and other degrees at the University of Huddersfield. Specific performance requirements for progression may be required.

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<b>Tel:</b>	01484 473 867
<b>Website:</b>	<a href="http://www.hud.ac.uk/courses/undergraduate">www.hud.ac.uk/courses/undergraduate</a>
<b>Open day info:</b>	<a href="http://www.hud.ac.uk/open-days">www.hud.ac.uk/open-days</a>

# University of Hull

*The University of Hull is the region's premier provider of full-time and part-time degree courses in Engineering. Our campus is ideally situated in the heart of the Humber region's thriving 'Energy Estuary', you benefit from studying close to more than 350 engineering and process giants – including Phillips66, Total, Novartis, BP Chemicals, Croda, Cristal, Smith & Nephew and RB (formerly Reckitt Benckiser).*

*In addition to support from the local chemical and process industry, we work closely with the industry-supported Centre for Assessment of Technical Competency (CATCH) enabling students to gain access to some of the best pilot and plant scale training facilities in the UK.*

*Employment prospects for our graduates continue to be particularly good. Hull has an excellent record for graduate employment, having held a high ranking place among the higher education institutions for graduate employability in most years since comparative records were first published.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **MEng(Hons) 4 years full-time**
- **BEng(Hons) 4 years with a year in industry**
- **MEng(Hons) 5 years with a year in industry**
- **BEng(Hons) 4 years with a year abroad**
- **MEng(Hons) 5 years with a year abroad**

### 2. Chemical Engineering and Energy Engineering

- **MEng(Hons) 4 years full-time**

### 3. Chemical Engineering with Foundation Year

- **BEng(Hons) 4 years full-time with Foundation Year**

## Entry requirements

- BEng: 112 UCAS points, MEng: 120 UCAS points. Points can be from any qualification on the UCAS tariff, but must include at least 80 points from two A-levels, or a combination of appropriate Level 3 qualifications. Qualifications should include Maths and Chemistry, and preferably Physics
- IB Diploma: BEng - 28 points including 5 in HL Maths and Chemistry
- BTEC L3 Extended Diploma: DMM in Engineering including merit in optional and core Maths units
- Access to HE Diploma: Suitable for BEng route only with transfer to MEng subject to satisfactory progress. Entrance to BEng pathway: Pass Science or Engineering based Diploma with minimum of 45 credits at merit or higher, including 18 credits at merit in Maths
- the foundation year is designed for applicants whose qualifications and experience do not allow direct entry to the undergraduate degree
- we expect applicants to demonstrate an experience of, or interest in, a related subject and an aptitude for academic work which may be determined by an essay and/or interview alongside the application
- for applicants with A-levels in subjects other than those key to the degree, we will usually require a minimum of 80 points from Level 3 qualifications.

We welcome applicants with a range of qualifications from the UK and worldwide which may not exactly match the combinations shown above. Please contact the University's Admissions Service for individual guidance.

<b>Admissions tutor:</b>	Professor Philip Rubini
<b>Email:</b>	<a href="mailto:engineering.admissions@hull.ac.uk">engineering.admissions@hull.ac.uk</a>
<b>Tel:</b>	01482 465 891
<b>Website:</b>	<a href="http://www.hull.ac.uk/chemicalengineering">www.hull.ac.uk/chemicalengineering</a>
<b>Prospectus:</b>	<a href="http://www2.hull.ac.uk/pgmi2/ug/courses/2017/chemical-engineering">www2.hull.ac.uk/pgmi2/ug/courses/2017/chemical-engineering</a>

# Imperial College, London

*The Department of Chemical Engineering at Imperial College is one of the oldest chemical engineering departments in the country and, in 2010, it celebrated the 70<sup>th</sup> anniversary of the graduation of its first chemical engineering students.*

*Today we offer an integrated four year programme leading to the award of a MEng degree in Chemical Engineering. One stream of this course involves spending one year abroad, studying in a university in Australia, France, Germany, the Netherlands, Spain, Sweden, Switzerland, Singapore or the United States; another stream explores further nuclear engineering challenges.*

*In 2012, we inaugurated our state-of-the-art Carbon Capture Pilot plant giving undergraduates the chance to learn firsthand about carbon capture technology, which could be used in the future to reduce the UK's greenhouse emission. We collaborate closely with other departments and with industry partners in the chemicals, energy (oil, gas and renewable), healthcare and processing industries. This ensures that all of our teaching and research is underpinned by the latest interdisciplinary thinking and real-world experience.*

## Courses

1. Chemical Engineering  
- MEng 4 years full-time
2. Chemical Engineering with a year abroad (from the 3<sup>rd</sup> year)  
- MEng 4 years full-time
3. Chemical with Nuclear Engineering (from the 3<sup>rd</sup> year)  
- MEng 4 years full-time

## Entry requirements

- a minimum of three A-levels are required in Maths, Chemistry and another relevant A-level subject including Physics, Biology, Further Maths or Economics at grades A\*A\*A (to include Maths and Chemistry at A\*). For the year abroad in Europe, an A grade at GCSE in the relevant language (German, French or Spanish) is also required.
- typical offers are A\*A\*A\* for candidates offering 3 A-levels or A\*A\*AA for candidates offering 4 A-levels
- other accepted qualifications include Scottish Highers (with CSYS) and International, French and European baccalaureates, as well as several other international qualifications.

<b>Admissions tutor:</b>	Dr Andreas Kogelbauer
<b>Email:</b>	<a href="mailto:a.kogelbauer@imperial.ac.uk">a.kogelbauer@imperial.ac.uk</a>
<b>Email for prospectus:</b>	<a href="mailto:ce-admissions@imperial.ac.uk">ce-admissions@imperial.ac.uk</a>
<b>Tel:</b>	0207 594 5569
<b>Website:</b>	<a href="http://www.imperial.ac.uk/chemicalengineering">www.imperial.ac.uk/chemicalengineering</a>

# Lancaster University

*Here in the Department of Engineering at Lancaster we focus on the quality of our students' experience and high standard of teaching. Learning is led by academics who are experts in their field, and students studying here get to know them and the support staff personally. We believe this informal and collaborative atmosphere helps students both enjoy their time at Lancaster and achieve their full potential whilst here.*

*We're one of only a handful of general engineering departments in the country. The first year is spent learning engineering principles and techniques from Mechanical and Electrical as well as Chemical Engineering. When students begin specialising in their chosen subject in the second year they have already established the skills to interact and communicate with engineers in other major disciplines. Our approach gives our graduates the edge; employers require engineers who can apply their chosen subject as part of multidisciplinary teams and projects.*

*The employment figures of our graduates are some of the best in the country, which is evidence that this combination of close contact with staff and an initial broad engineering foundation is a highly effective formula for producing the Professional Chemical Engineers of the Future.*

*Our Chemical Engineering programmes are accredited towards Chartered Engineer (CEng) status by the Institution of Chemical Engineers (IChemE). There are options for taking a study abroad year, or an industrial placement year.*

## Courses

### 1. Chemical Engineering

- BEng(Hons) 3 years full-time
- MEng(Hons) 4 years full-time

## Entry requirements

### GCSE:

- Minimum of 5 GCSEs at grade B or 6 to include Maths, and GCSE English Language at grade C or 4.

### A-levels:

- BEng: AAB including Maths and Chemistry/MEng: AAA including Maths and Chemistry

### International Bacc:

- BEng: 35pts overall with 16pts from best 3 HL subjects to include Maths and Chemistry at HL
- MEng: 36pts points overall with 16pts from best 3 HL subjects to include Maths and Chemistry at HL
- IELTS level required is 6.5. Can be shown by GCSE grade C in English or 6 in Bacc SL English.

<b>Admissions tutor:</b>	Dr Stephen Quayle
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<b>Email for prospectus:</b>	<a href="mailto:engineering@lancaster.ac.uk">engineering@lancaster.ac.uk</a>
<b>Tel:</b>	01524 593095
<b>Website:</b>	<a href="http://www.lancaster.ac.uk/engineering">www.lancaster.ac.uk/engineering</a>

# University of Leeds

*The University of Leeds has an international reputation for the high quality of its teaching and research and continues to attract the highest number of student applications in the UK. Leeds is also one of the fastest growing cities in the UK and has a dynamic atmosphere to match.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **MEng 4 years full-time**

### 2. Chemical and Energy Engineering

- **BEng(Hons) 3 years full-time**
- **MEng 4 years full-time**

### 3. Chemical and Materials Engineering

- **BEng(Hons) 3 years full-time**
- **MEng 4 years full-time**

### 4. Chemical and Nuclear Engineering

- **BEng(Hons) 3 years full-time**
- **MEng 4 years full-time**

## Entry requirements

- three A-levels or equivalent, including Maths and either Physics or Chemistry. The third A-level may be taken in another approved science subject. Note that a European language to at least AS-level is advised for anyone contemplating the optional year in Europe
- Usual grades required: A-level grades A\*AA for MEng/BEng entry
- other qualifications considered include BTEC, ACCESS, GNVQ (Adv), European and International Baccalaureate, Scottish, Irish and overseas qualifications etc
- mature candidates are encouraged to apply

#### Study abroad

- MEng students can take the third year of the course at an overseas Institution. At present, there are arrangements with a number of universities across Europe, North America and Asia.

#### Industry Year

- at the end of the second year or third year, students may opt for a year in industry to take up an industrial training placement.

<b>Admissions tutor:</b>	Dr Darron Dixon-Hardy
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<b>Tel:</b>	0113 343 6542
<b>Website:</b>	<a href="http://www.engineering.leeds.ac.uk/chemical">www.engineering.leeds.ac.uk/chemical</a>



# University of Limerick

*This Chemical and Biochemical Engineering course provides an interesting, intellectually challenging, and educationally thorough degree programme that leads to a professionally recognised qualification and good employment prospects in any of a variety of stable, sustainable, well-paid careers. In introducing this new programme (in 2011), University of Limerick sought to build on over 25 years of teaching and research experience in chemical and biochemical process engineering.*

Details of the programme can be found at:

[www.ul.ie/courses/ChemicalAndBiochemicalEngineering.php](http://www.ul.ie/courses/ChemicalAndBiochemicalEngineering.php)

*The course is linked to research activity within the Synthesis and Solid State Pharmaceutical Cluster, the Dairy Processing Technology Centre, Biorefining and Bioenergy Technology Centre and the Bernal Institute within the University of Limerick involving the majority of the top ten Pharmaceutical Companies.*

## Courses

### Chemical & Biochemical Engineering

- **BEng(Hons) 4 years full-time** (includes a 9 month industrial placement during the spring and summer semesters of the third year)

## Entry requirements

Leaving Certificate (or an approved equivalent) with a minimum of six subjects, and at least:

- Two H5 (Higher Level) grades and Four O6 (Ordinary Level) grades, or
- Four H7 (Higher Level) grades.

Subjects must include Maths, Irish or another language, and English. In addition, applicants must hold:

- A minimum grade H4 in Maths, and
- A minimum O6/H7 in one of the following: Physics, Chemistry, Physics with Chemistry, Engineering, Technology, Design & Communication Graphics/Technical Drawing, Biology, Agricultural Science, applied Maths, Construction Studies.

Applications are welcome from transferees with NFQ (National Framework of Qualifications) Level 7 awards. Suitably qualified students may be offered exemptions from Year 1 and/or Year 2.

A special Maths examination will be offered at UL following the Leaving Certificate results for those students who did not achieve the Maths requirement.

<b>Email:</b>	<a href="mailto:ces@ul.ie">ces@ul.ie</a>
<b>Tel:</b>	00353 (0) 61 202 263
<b>Website:</b>	<a href="http://www.ul.ie/~ces">www.ul.ie/~ces</a>

# University College London (UCL)

## Biochemical Engineering

*As the first UK department to offer a dedicated Biochemical Engineering degree, UCL has pioneered research-led teaching in this increasingly important area. The course addresses chemical engineering fundamentals and shows how they can be applied to tackle global problems of health and sustainability. This leads to careers in the established chemical and pharmaceutical sectors, or emerging areas such as synthetic Biology or regenerative medicine. In recognition of our teaching excellence we have been awarded the Queen's Anniversary Prize for our innovative approach to engineering education. In the latest UK Research Assessment Exercise 75% of academic staff were rated as 'world leading' or 'internationally excellent'. The department hosts a state of the art pilot plant facility, enabling undergraduates to gain practical process engineering experience.*

*Through UCL's Integrated Engineering Programme (IEP), we put an emphasis on small group learning and immersive scenario based activities. Interdisciplinary collaboration is at the heart of IEP, and UCL offers a diverse range of elective engineering Minor modules to allow students to tailor their degree towards their interests in areas such energy, policy or programming. Exposure to industry begins at undergraduate level, offering opportunities for networking and internships. Projects are designed to apply core material to real life challenges such as manufacture of biopharmaceuticals, production of biofuels or the design of process equipment. Situated in the heart of London, our students gain a global perspective as well as the technical and professional skills sought after by one of the fastest growing industries.*

*The MEng programme offers maximum flexibility for students to develop their independence by conducting a research project either within the department, during study abroad, or through a year in industry. Alternatively, MEng students can choose to specialise in management, or combine Biochemical with Chemical Engineering for the final year.*

### Courses

#### Biochemical Engineering

- BEng(Hons) 3 years full-time
- MEng(Hons) 4 years full-time

### Entry requirements

- A-levels A\*AA-AAA. Maths required plus one from Biology, Chemistry and Physics. For UK-based students, a pass in a further subject at AS level or equivalent is required.
- IB Diploma: 38-39 points overall. A total of 18-19 points in three higher level subjects including Maths, plus one from Biology, Chemistry or Physics, with no score below 5
- equivalent international entry qualifications also welcomed.



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2013

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<b>Tel:</b>	0207 679 9789
<b>Website:</b>	<a href="http://www.ucl.ac.uk/biochemeng">www.ucl.ac.uk/biochemeng</a>

# University College London (UCL)

## Chemical Engineering

*Situated in the heart of London on the main campus of UCL, consistently ranked in the top three multi-faculty UK universities, the departments of Chemical and Biochemical Engineering are top research and teaching departments in the UK, achieving world class standing.*

*For students, the Departments offer a range of first degree and postgraduate courses in chemical engineering and biochemical engineering. In the last two years, all our courses have been re-accredited with distinction by the Institution of Chemical Engineers and have received a high grading in the Teaching Quality Assessment exercise carried out by the Higher Education Funding Council for England (HEFCE).*

### Courses

#### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years sandwich**
- **MEng 4 years full-time**
- **MEng 5 years sandwich**

#### 2. Chemical Engineering with study abroad

- **MEng 4 years full-time**
- **MEng 5 years sandwich**

#### 3. Chemical with Biochemical Engineering

- **MEng 4 years full-time**
- **MEng 5 years sandwich**

### Entry requirements

- A-level grades AAA to include Maths and Chemistry
- IB Diploma: overall points 38 with a total of 18 points in three higher level subjects to include Maths and Chemistry, with no score lower than 5.

**Admissions tutor:** Dr Federico Galvanin

**Email:** [f.galvanin@ucl.ac.uk](mailto:f.galvanin@ucl.ac.uk)

**Tel:** 020 7679 5739

**Website:** [www.ucl.ac.uk/chemeng](http://www.ucl.ac.uk/chemeng)

**Prospectus:** [www.ucl.ac.uk/prospective-students/undergraduate/subject-areas/chemical-engineering](http://www.ucl.ac.uk/prospective-students/undergraduate/subject-areas/chemical-engineering)

# London South Bank University

London South Bank University has invested in new equipment provisions so that you will be exposed to industry-standard workshops and laboratories. You'll learn through both group and individual projects providing you with knowledge and skills to meet the demands of the industry. Our BEng course in Chemical and Process Engineering, as well as our HND course in Chemical Engineering, are accredited by the Institution of Chemical Engineers (IChemE).

## Courses

### 1. Chemical and Process Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years sandwich**
- **MEng (Hons) 4 years full-time**
- **HND 2 years full time\***

### 2. Petroleum Engineering

- **BEng(Hons) 3 years full-time**
- **BEng (Hons) 4 years sandwich**
- **MEng (Hons) 4 years full-time**

\*If successfully completed students could transfer to the second year of BEng courses

## Entry requirements

BEng degree:

- 120-128 UCAS points;
- A Level (BBB) to include at least two from Maths, Chemistry, Physics and Biology or;
- BTEC National Diploma DDM or;
- Access to HE qualifications with 24 Distinctions 21 Merits or;
- Equivalent level 3 qualifications worth 128 UCAS points

MEng degree:

- A Level AAB or;
- BTEC National Diploma DDD or;
- Access to HE qualifications with 39 Distinctions 6 Merits or;
- Equivalent level 3 qualifications worth 144 UCAS points
- Level 3 qualifications must include Maths and science (Chemistry preferred)

BTEC HND:

- 72-80 UCAS points;
- A Level (DDD) to include at least one from Chemistry, Maths, Physics or Biology or;
- BTEC National Diploma MMP or;
- Access to HE qualifications with 24 Merits 21 Passes or;
- Equivalent level 3 qualifications worth 80 UCAS points
- Level 3 qualifications must include Maths or science

Applicants must hold 5 GCSEs A-C including Maths and English or equivalent (reformed GCSEs grade 4 or above).

We welcome qualifications from around the world. English language qualifications for international students: IELTS score of 6.0 or Cambridge Proficiency or Advanced Grade C

<b>Admissions tutor:</b>	Donglin Zhao
<b>Email:</b>	<a href="mailto:zhaod2@lsbu.ac.uk">zhaod2@lsbu.ac.uk</a>
<b>Tel:</b>	0207 815 7917
<b>Website:</b>	<a href="http://www.lsbu.ac.uk/appliedsciences">www.lsbu.ac.uk/appliedsciences</a>

# Loughborough University

*The Department of Chemical Engineering at Loughborough University has become a key provider of chemical engineering education in the UK. We were one of the first departments to offer the option of a year in industry to our students and have continued this tradition for almost 70 years. Our teaching approach provides students with an excellent grasp of both the fundamental and practical aspects of the subject and aims primarily to prepare graduates for their careers in the process industries. We offer BEng and MEng programmes both with and without the option of a period in industry. MEng students also have an opportunity to study abroad at an overseas university for one semester.*

*We offer an exciting challenge to our undergraduate students and a promise to support their studies to the full. Loughborough has much to offer students, both academically and socially through its leisure and renowned sports facilities.*

## Courses

### Chemical Engineering

- BEng(Hons) 3 years full-time
- BEng(Hons) 4 years sandwich (DIS)\*
- MEng(Hons) 4 years full-time
- MEng(Hons) 5 years sandwich (DIS)\*

\*DIS = Diploma in Industrial Studies (awarded for successful completion of 'sandwich' year)

## Entry requirements

We recognise the increasingly wide variety of qualifications and subjects likely to be offered. Typical entry requirements are indicated below.

- for MEng and BEng: we require a minimum of 3 subjects at A-level including Maths and at least one from Chemistry or Physics
- grades required: MEng A\*AA, BEng AAB
- equivalent qualifications such as International or European Baccalaureate, Scottish Advanced Highers and CSYS, Irish Leaving Certificate and BTEC are also considered.

<b>Admissions tutor:</b>	Dr Andy Stapley
<b>Email:</b>	<a href="mailto:cg-admissions@lboro.ac.uk">cg-admissions@lboro.ac.uk</a>
<b>Tel:</b>	01509 222 532
<b>Website:</b>	<a href="http://www.lboro.ac.uk/departments/cg">www.lboro.ac.uk/departments/cg</a>

# University of Manchester

*The discipline of chemical engineering was born at Manchester Technical School, one of The University of Manchester's antecedent institutions, in 1887 when George E Davis delivered a series of lectures, which 14 years later were published as the first ever chemical engineering textbook. Today Chemical Engineering at Manchester has state of the art pilot-scale teaching and research facilities, housed in the modern James Chadwick Building and our undergraduates are taught by world-leading experts in key areas, such as sustainable chemical engineering, process integration, catalysis and biochemical engineering. Our fully integrated degree programmes offer a solid foundation in the fundamental principles of chemical engineering and offer flexibility that allows students to pursue areas of study that interest them. A highlight is our innovative Chemical Engineering with Industrial Experience programme, which incorporates a year-long industrial placement into a demanding 4-year MEng programme. Our excellent 85% employability rate and the range of student awards and prizes available from companies such as BP, demonstrate that our chemical engineering graduates are highly regarded and sought after by industry.*

## Courses

### 1. Chemical Engineering

- BEng(Hons) 3 years full-time
- MEng 4 years full-time

### 2. Chemical Engineering with Study in Europe

- MEng 4 years full-time (third year in either France, Germany or Spain)

### 3. Chemical Engineering with Industrial Experience

- MEng 4 years full-time (third year in industry)

### 4. Chemical Engineering with Energy and Environment

- MEng 4 years full-time

## Entry requirements

- A-level: A\*AA-AAA including Maths and one other science subject. For Chemical Engineering with Study in Europe an A-level in the language of choice is required (minimum grade B)
- IB: 38-37 points overall including 18 points at Higher Level, including Maths and one other science subject
- European Baccalaureates, Irish Leaving Certificate and BTEC qualifications acceptable

<b>Admissions tutor:</b>	Dr James Winterburn
<b>Email:</b>	<a href="mailto:james.winterburn@manchester.ac.uk">james.winterburn@manchester.ac.uk</a>
<b>Email for prospectus:</b>	<a href="mailto:ug-ceas@manchester.ac.uk">ug-ceas@manchester.ac.uk</a>
<b>Tel:</b>	0161 306 4360
<b>Website:</b>	<a href="http://www.ceas.manchester.ac.uk">www.ceas.manchester.ac.uk</a>

# Newcastle University

*The School of Chemical Engineering & Advanced Materials is committed to providing a high quality student learning experience. Our state-of-the-art laboratory facilities, which include our new £500,000 Millennium undergraduate teaching laboratory, our ExxonMobil Design Suite, and recently refurbished control, bioprocessing and pilot plant laboratories, allow our students to develop valuable practical skills at all stages of their programme. We also offer a unique opportunity for suitably qualified students to compete for a place on our IChemE- accredited Industry degree, with the chance to spend an assessed year in industry as part of a 4 year MEng Industry programme.*

*The University is dedicated to producing highly employable graduates. The NCL+ initiative focuses on helping students develop communication, organisational and planning skills, as well as offering work experience, volunteering experience and enterprise development. The University's Robinson Library is the only one in the UK to be awarded the government's Charter Mark five times in a row, in recognition of the high quality learning environment available to our students. The Sports Centre offers first-class fitness facilities to all students on campus, and the Students' Union building has reopened after undergoing an £8m refurbishment programme, with some outstanding new facilities in the heart of campus.*

*Newcastle was named the UK's best university city for the third consecutive year in 2010 by the MSN travel website. Its night life certainly rivals that of much bigger cities.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **MEng(Hons) 4 years full-time**
- **MEng(Hons) 4 years via the industrial route**
- **MEng(Hons) 4 years in Bioprocess Engineering**
- **MEng(Hons) 4 years in Process Control**
- **MEng(Hons) 4 years in Sustainable Engineering**

### 2. Foundation year programme

- **BEng(Hons) 4 years full-time**
- **MEng(Hons) 5 years full-time**

## Entry requirements

- usual grades required for BEng: AAA for entry into Stage 1 or Foundation Year
- usual grades required for MEng: AAA for entry into Stage 1 or Foundation Year
- A-Levels to include Maths and Chemistry (but excluding general studies and critical thinking). For Biology, Chemistry and Physics A-Levels, we require a pass in the practical element. GCSE Physics or Dual Award Science (minimum grade B or 6) required if Physics not offered at A-Level. A-Levels in any subject will be considered for the Foundation Year Programme, with GCSE Maths and Chemistry (minimum grade B) required if not offered at A or AS-Level
- BTEC Level 3 Extended Diploma and Irish Leaving Certificate will be considered for Foundation Year
- Scottish qualifications and the International Baccalaureate are also accepted and applications are welcomed from mature students.



**Admissions tutor:** Dr Chris O'Malley

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**Tel:** 0191 208 7266

**Website:** [www.ncl.ac.uk/ceam](http://www.ncl.ac.uk/ceam)

# University of Nottingham

*The University of Nottingham is one of the most popular in the UK with a large 330 acre parkland campus and easy access to the vibrant city of Nottingham. The Department of Chemical and Environmental Engineering has a long history of collaboration with industry, and extensive links with global companies and organisations. Nottingham has pioneered a unique approach to teaching and learning to manage the transition between school and university, and produce engineers with the knowledge and skills that are in demand all over the world. The structure is flexible, so students can elect to switch between courses at the end of year 1 and between BEng and MEng streams at the end of year 2. All students have the opportunity to undertake an industrial placement, usually at the end of year 2 or year 3, and there are numerous options to study abroad as part of the course. Nottingham graduates are very highly regarded by employers and our former students can be found in a diverse range of roles and disciplines all over the world.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years full-time including industrial placement**
- **MEng 4 years full-time**
- **MEng 5 years full-time including industrial placement**

### 2. Chemical Engineering with Environmental Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years full-time including industrial placement**
- **MEng 4 years full-time**
- **MEng 5 years full-time including industrial placement**

### 3. Environmental Engineering

- **BEng (Hons) 3 years full-time**
- **BEng (Hons) 4 years full-time including industrial placement**
- **MEng 4 years full-time**
- **MEng 5 years full-time including industrial placement**

Nottingham also offers a foundation year course for entrants without the traditional A-level subjects.

## Entry requirements

- A-levels: AAA–A\*AA to include Maths and either Chemistry or Physics, plus third subject
- also considered are International or European baccalaureate, Irish Leaving Certificate, BTEC, Scottish Advanced Highers and equivalent qualifications
- the university welcomes applications from mature candidates

<b>Admissions tutor:</b>	Mr John J. Turner
<b>Email:</b>	<a href="mailto:john.turner@nottingham.ac.uk">john.turner@nottingham.ac.uk</a>
<b>Email for prospectus:</b>	<a href="mailto:eng-student-support@nottingham.ac.uk">eng-student-support@nottingham.ac.uk</a>
<b>Tel:</b>	0115 951 4163/4081
<b>Website:</b>	<a href="http://www.nottingham.ac.uk/chemenv">www.nottingham.ac.uk/chemenv</a>

# University of Oxford

*The Department of Engineering Science is one of the largest unified engineering departments in the UK and one of the largest departments in the University. Its teaching and research cover the whole range of engineering disciplines for more than 650 undergraduates (over 20% of them women) and around 350 research students. There are over 100 established members of the academic staff and many others engaged in teaching, research and support.*

## Courses

### Engineering Science (Chemical Engineering)

- MEng 4 years full-time

Students have to meet all the chemical engineering elective options and the chemical engineering design project to fully meet the requirements for accreditation.

## Entry requirements

Undergraduate admission is the responsibility of the Colleges; the current edition of the University's Undergraduate Prospectus must be consulted for detailed information:

[www.ox.ac.uk/admissions/undergraduate\\_courses/index.html](http://www.ox.ac.uk/admissions/undergraduate_courses/index.html)

- ability in Maths and Physics is essential for those wishing to study any engineering course. Good performance in single Maths and Physics at A-level (or equivalent qualification) is required. Inclusion of Maths mechanics modules and study of further Maths at A- or AS-level are strongly encouraged but are not required
- students taking Scottish Highers, International Baccalaureates or other equivalent examinations are encouraged to apply
- further entry information can be found at [www.eng.ox.ac.uk/study-here/undergraduate](http://www.eng.ox.ac.uk/study-here/undergraduate).

**Email:** [faculty.office@eng.ox.ac.uk](mailto:faculty.office@eng.ox.ac.uk)

**Tel:** 01865 283 263

**Website:** [www.eng.ox.ac.uk/chemeng](http://www.eng.ox.ac.uk/chemeng)

# Queen Mary University of London

*The new Chemical Engineering programme has been developed to reflect the School of Engineering and Materials Science's existing strengths.*

*With long histories in mechanical engineering and materials science engineering, we are perfectly placed to provide an excellent education in chemical engineering. We are developing this programme due to our excellent teaching and research in this area and are also developing new teaching facilities dedicated to chemical engineering.*

*Chemical Engineers are in great demand and can have successful careers in a large number of industries. In order to be successful in these industries students must have the appropriate preparation at university. Our teaching is both practical and theoretical: you will be involved in lab practicals from the first term, and working on projects relevant to the chemical engineering industry.*

## Courses

### Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years full-time with industrial experience**
- **BEng(Hons) 4 years full-time with a year abroad**
- **MEng(Hons) 4 years full-time**
- **MEng(Hons) 5 years full-time with industrial experience**
- **MEng(Hons) 5 years full-time with a year abroad**

## Entry requirements

BEng:

- A-level: AAB to include Maths, and Physics or Chemistry
- International Baccalaureate: minimum of 34 points overall including 6, 6, 5 from three Higher Level subjects to include Maths and Physics or Chemistry

MEng:

- A-level: AAA to include Maths, and Physics or Chemistry
- International Baccalaureate: minimum of 36 points overall including 6, 6, 5 from three Higher Level subjects to include Maths and Physics or Chemistry

Other qualifications such as BTEC or Access HE accepted. See website for more info.

<b>Admissions coordinator:</b>	Marian Langbridge
<b>Email:</b>	<a href="mailto:sems-ugadmissions@qmul.ac.uk">sems-ugadmissions@qmul.ac.uk</a>
<b>Tel:</b>	+44 (0) 20 7882 8736
<b>Website:</b>	<a href="http://www.sems.qmul.ac.uk">www.sems.qmul.ac.uk</a>

# Queen's University, Belfast

*Queen's combines the best of tradition with a progressive outlook. It is an institution with a world-class academic reputation as reflected in the award of the Queen's Anniversary Prize in 2006, the fourth time the University has been honoured this way.*

*As a member of the Russell Group of leading UK universities, Queen's is building on its tradition of excellence to secure a future for its students – the leaders of tomorrow. They can look forward to being taught to the highest standards by academics who are both world-class teachers and researchers.*

## Courses

### Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years sandwich**
- **MEng 4 years full-time**
- **MEng 5 years sandwich**

## Entry requirements

- A-levels in Maths, scientific subject (preferably Chemistry) and one other
- Irish Leaving Certificate (to include Maths and Chemistry plus three/four other subjects)
- BTEC National Diploma with 10 Distinctions and 8 Merits for BEng; 18 Distinctions for MEng
- OU Courses looked at on merit
- BEng: BBB at A-level, B2B2B2B2CC for Irish Leaving Certificate
- MEng: AAB at A-level, AB2B2B2B2B2 for Irish Leaving Certificate.

<b>Admissions tutor:</b>	Dr Pamela Walsh/Dr Gary Sheldrake
<b>Email:</b>	<a href="mailto:chemengqueries@qub.ac.uk">chemengqueries@qub.ac.uk</a>
<b>Email for prospectus:</b>	<a href="mailto:cance@qub.ac.uk">cance@qub.ac.uk</a>
<b>Tel:</b>	02890 975418
<b>Website:</b>	<a href="http://www.ch.qub.ac.uk">www.ch.qub.ac.uk</a>

# University of Sheffield

*As a Sheffield Chemical Engineer, you'll generate solutions for 21<sup>st</sup> century grand challenges in energy, climate change and human health. You'll be open and outward focused, comfortable working in or leading culturally diverse and interdisciplinary teams and be excited to attack complex and wicked world problems. Here at Sheffield you'll become an innovative product developer, forward looking, a risk taker and a trail blazer. You'll be proud of the manufacturing heritage of our university and of our city.*

*21st century Chemical Engineers at Sheffield need to be both product and process engineers who develop new products, as well as design the processes that manufacture them. Here you'll learn to develop, characterise and reverse engineer new products for high value manufacturing, biotechnology, and clean fuels.*

*The Sheffield Chemical Engineer has a passion for science and Maths and will be a world class problem solver. We'll equip you with everything you need to deliver sustainable solutions to support an ever growing, global population – study at Sheffield and you could literally change millions of lives.*

## Courses

### 1. Chemical Engineering

- BEng(Hons) 3 years full-time
- MEng 4 years full-time

### 2. Chemical Engineering with Energy

- MEng 4 years full-time

### 3. Chemical Engineering with Biological Engineering

- MEng 4 years full-time

### 4. Chemical Engineering with a Year in Australasia

- MEng 4 years full-time, including one year of study abroad

### 5. Chemical Engineering with Nuclear Technology

- MEng 4 years full-time

### 6. Chemical Engineering with a Year in Industry/Industrial Experience

- BEng 4 years full-time, including a one year industrial placement
- MEng 5 years full-time, including a one year industrial placement

### 8. Chemical Engineering with a Foundation Year

- one year precursor to either BEng or MEng degree

## Entry requirements

AAA at A-level, to include Maths and another science subject and excluding General Studies and Critical Thinking. For further information on our undergraduate courses and entry requirements please visit our website at [www.sheffield.ac.uk/cbe](http://www.sheffield.ac.uk/cbe)

**Admissions tutor:** Mark Ogden

**Email:** [m.d.ogden@sheffield.ac.uk](mailto:m.d.ogden@sheffield.ac.uk)

**Email for prospectus:** [louise.hall@sheffield.ac.uk](mailto:louise.hall@sheffield.ac.uk)

**Tel:** 0114 222 7576

**Website:** [www.sheffield.ac.uk/cbe](http://www.sheffield.ac.uk/cbe)

# Sheffield Hallam University

*The Department of Engineering and Maths at Sheffield Hallam University is committed to providing a high quality student learning experience and our chemical engineering programme has been rigorously designed according to the CEng route of IChemE.*

*The courses offer excellent chemical engineering practical experience through state-of-the-art laboratory facilities, pilot plants, computing laboratories, professional software, modern teaching facilities and our virtual learning environment (VLE). Students are able to obtain systematic theoretical knowledge in chemical engineering, develop valuable practical skills at all stages of their programme and acquire design skills in chemical engineering plant through team and individual work and various life skills through the university experience.*

*The University is dedicated to producing highly employable graduates. It focuses on helping students develop communication, organisational and planning skills, as well as offering workplace experience, industrial links, volunteering experience and enterprise development.*

*Our strong industry-university partnership creates opportunity for students to work on diverse research and industrial design projects and develop professional skills. We have developed a series of industrial lectures for our students and our programme is supplemented by expertise and industrial collaboration through our research centres such as the Materials and Engineering Research Institute (MER) which develops polymers and nanocomposites and a variety of materials and modelling and analysis, and the National Centre of Excellence for Food Engineering which works closely with the food sector to develop new packaging materials, improve process control, automation and energy efficiency.*

## Courses

### Chemical Engineering

- BEng(Hons) 3 years full-time
- BEng(Hons) 4 years sandwich
- MEng 4 years full-time
- MEng 5 years sandwich

## Entry requirements

**BEng** - normally five GCSEs at grade C or grade 4 (or above) including English language and Maths, plus:

- 112 UCAS points from at least two A-levels or equivalent BTEC National qualifications (to include Maths and either Physics or Chemistry subjects.) We accept AS levels. We do not accept General Studies.

**MEng** - normally five GCSEs at grade C or grade 4 (or above) including English language and Maths, plus:

- 128 UCAS points including at least 64 points from two A-levels or equivalent BTEC National qualifications (to include Maths and Physics or Chemistry.) We accept AS levels. We do not accept General Studies.



Candidates who have other, non-standard qualifications will be considered on their individual merits by the Course Leader and Admissions Tutor. The primary criteria will be that the candidate will have the ability and commitment to progress satisfactorily on the programme.

Students following a BEng course can transfer to the corresponding MEng course at any point up to the end of L6 providing they achieve an overall average for each year of at least 50% and have no failed modules on their record.

<b>Programme leader:</b>	Dr Abhishek Asthana
<b>Email:</b>	<a href="mailto:a.asthana@shu.ac.uk">a.asthana@shu.ac.uk</a>
<b>Tel:</b>	0114 225 3261
<b>Admissions tutor:</b>	Dr Mark Thompson
<b>Email:</b>	<a href="mailto:m.thompson@shu.ac.uk">m.thompson@shu.ac.uk</a>
<b>Tel:</b>	Tel: 0114 225 4924
<b>Website:</b>	<a href="http://www.shu.ac.uk/study-here/">www.shu.ac.uk/study-here/</a>

# University of Strathclyde, Glasgow

*The chemical engineering degree courses at Strathclyde are the most popular in Scotland and amongst the most popular in the UK. The record of achievement by our students and graduates is excellent. Our courses are specifically tailored to meet the needs and requirements of industry and our teaching strengths include expertise in environmental protection, process design and safety. The department has strong links with many employers of chemical engineers.*

## Courses

### Chemical Engineering

- MEng
- BEng(Hons)

## Entry requirements

### Scotland

- Entry after S5: Five Higher grades at AAAAB including Maths, Chemistry and Physics at A or B
- Sixth Year: If you have marginally failed to meet the above requirements at the end of the fifth year then you may be admitted on the basis of excellent performance in the sixth year.

### Rest of UK

- A-levels: Three passes in Maths, Physics and Chemistry at ABB (in this order).

<b>Admissions tutor:</b>	Dr Simon Shilton
<b>Email for prospectus:</b>	<a href="mailto:chemeng-ug-admissions@strath.ac.uk">chemeng-ug-admissions@strath.ac.uk</a>
<b>Website:</b>	<a href="http://www.strath.ac.uk/engineering/chemicalprocessengineering">www.strath.ac.uk/engineering/chemicalprocessengineering</a>

# University of Surrey

*The University of Surrey is one of the UK's leading professional, scientific and technological universities with a world class reputation for excellence in teaching and research. Ground-breaking research at the University is bringing direct benefit to all spheres of life – helping industry to maintain its competitive edge and creating improvements in the areas of health, medicine, space science, the environment, communications, defence and social policy.*

*Chemical engineering qualifications have been granted by the institution for over 100 years and we've recently spent £1.7M on a pilot scale chemical process for teaching use, and new undergraduate laboratories.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years sandwich**
- **MEng 4 years full-time**
- **MEng 5 years sandwich**

### 2. Chemical and Petroleum Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years sandwich**
- **MEng 4 years full-time**
- **MEng 5 years sandwich**

All of the above courses are available with an integrated foundation year for entrants without the traditional entry qualifications – international students only.

## Entry requirements

- academic A-levels: MEng entry: AAB/BEng entry: ABB
- Maths A-level and Chemistry A-level are required
- GCSEs in English language AND Maths at grade C/4 or above (or equivalent) are required
- candidates with good grades in Scottish Highers, Irish Leaving Certificate, International Baccalaureate or other equivalent qualifications are encouraged to apply
- candidates seeking direct entry to the second year of the programmes who have suitable qualifications to support such entry are also encouraged to apply

<b>Admissions tutor:</b>	Prof Rex Thorpe
<b>Email:</b>	<a href="mailto:admissions@surrey.ac.uk">admissions@surrey.ac.uk</a>
<b>Tel:</b>	01483 682 222
<b>Website:</b>	<a href="http://www.surrey.ac.uk">www.surrey.ac.uk</a>

# Swansea University

*Chemical engineers design, operate and optimise chemical and physical processes that turn raw materials into valuable products for human use. They also use their skills to ensure that natural resources are used sustainably, and the disposal of the by-products generated by these processes is done in a safe and environmentally-friendly manner.*

*You will be trained to meet the needs of modern process engineering and gain the ability to use analytical skills and tools to formulate and solve problems relevant to the application of engineering to industry. The course will also provide a foundation for you to aim for the prized Chartered Engineer status*

*One of our major strengths is our close and extensive involvement with local, national and international engineering companies. The course involves industrial visits to various companies such as Valero, Avalon (AstraZeneca), Aberthaw Power Plant, First Milk, Tata Steel and Vale INCO Ltd. Modules build on established Chemical Engineering areas with application to energy, health, food, water and the environment.*

*Our Chemical Engineering degrees are accredited by the Institution of Chemical Engineers (IChemE).*

*Chemical Engineering at Swansea University is ranked 9<sup>th</sup> in the UK for Graduate Prospects (The Guardian University League Table 2017).*

## Courses

### Chemical Engineering

- BEng(Hons) 3 years full-time
- BEng(Hons) 4 years full-time (with Year in Industry)
- BEng(Hons) 4 years full-time (with a Year Abroad)
- MEng(Hons) 4 years full-time
- MEng(Hons) 5 years full-time (with Year in Industry)
- MEng(Hons) 5 years full-time (with a Year Abroad)
- Chemical Engineering foundation year

### Entry requirements

- BEng Chemical Engineering is AAB-BBB (including Maths)
- MEng Chemical Engineering is AAA-AAB (including Maths)
- we will also consider Scottish, Irish, BTEC, GNVQ, International and European Baccalaureates qualifications within the UCAS tariff points framework.

Please see our website for more details.

**Email:** [engineering@swansea.ac.uk](mailto:engineering@swansea.ac.uk)

**Tel:** 01792 295 514

**Website:** [www.swansea.ac.uk/engineering](http://www.swansea.ac.uk/engineering)

# Teesside University

*We are active in research in consultancy, and enjoy close links with local and national businesses which take part in course development and delivery. They also provide a range of prizes, student awards, sandwich placements and sponsorship for academic posts.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years full-time (extended) with an integrated foundation year**
- **MEng 4 years full-time**

These courses can also be studied part-time

### 2. Chemical Engineering with Industry

- **BEng(Hons) 4 years full-time with a year in industry**
- **BEng(Hons) 5 years full-time (extended) with an integrated foundation year and a year in industry**
- **MEng 5 years full-time with a year in industry**

## Entry requirements

Applicants are normally invited for an interview which enables them to see our excellent facilities and meet the staff and students. Each applicant will receive an individualised offer following an interview.

### **BEng:**

- 96-112 UCAS tariff points from any combination of recognised Level 3 qualifications including Maths
- The preferred second subject is Chemistry, but alternatives can be considered

### **MEng:**

- 112-128 UCAS tariff points from any combination of recognised Level 3 qualifications including Maths
- The preferred second subject is Chemistry, but alternatives can be considered

### **Foundation Year**

- Most UCAS tariff based offers are in the range of 32-88 tariff points. Non-tariff qualifications are also considered. The level of the tariff point offer depends on the subjects that you have studied.

<b>Admissions tutor:</b>	Dr Paul Russell
<b>Email:</b>	<a href="mailto:sse-admissions@tees.ac.uk">sse-admissions@tees.ac.uk</a>
<b>Tel:</b>	01642 738 800
<b>Website:</b>	<a href="http://www.tees.ac.uk/schools/sse">www.tees.ac.uk/schools/sse</a>

# University of the West of Scotland

*Chemical engineering is taught at the Paisley campus. All chemical engineering degrees can be taken part-time as well as full-time, with each academic year spread out into two consecutive academic years. Students may switch between full and part-time study. Many students take advantage of a year on placement – this may be taken between third and final year of study – in order to graduate with a sandwich degree.*

## Courses

### Chemical Engineering

- **BEng(Hons) 4 years full-time**
- **BEng(Hons) 5 years full-time with a year in industry**

## Entry requirements

- year 1 SQA Highers: BBBB, including Maths and Chemistry, plus Chemistry and English at S Grade.
- A-level: BBC including Maths, Chemistry and another science subject, plus three GCSEs including Chemistry and English.
- for entry requirements from other qualifications such as Irish Leaving Certificate, European Baccalaureate etc, please contact the Admissions Tutor.

**Admissions tutor:** Dr Zaki El-Hassan

**Email:** [zaki.el-hassan@uws.ac.uk](mailto:zaki.el-hassan@uws.ac.uk)

**Tel:** 0141 848 3301

**Website:** [www.uws.ac.uk/special\\_3\\_years/chemical\\_engineering](http://www.uws.ac.uk/special_3_years/chemical_engineering)

# University of Wolverhampton

*Our aim is for graduates to be ready for employment. In addition to a modern, innovative curriculum we provide many opportunities for students to gain employability skills, with employability workshops and awards as part of the course. We are constantly building and maintaining links between our students and regional, national and international employers and regularly have speakers from prominent industries and other academic partners. Indeed, several highly experienced industrial experts hold honorary and visiting positions with us; and regularly share their experience and knowledge with our students.*

*Wolverhampton offers a vibrant, up-to-date learning environment, which is supported by the community, the University and our dedicated and enthusiastic staff who want to see students succeed. This along with the latest polls of salary scales for petroleum and chemical engineering make Wolverhampton the place to be. To support lectures we have purpose built laboratories, which have received over £500,000 worth of investment in the last two years to include a purpose-built Design Centre. This brand new facility is exclusively for the use of our students and offers a dedicated space with industry standard facilities for group work. Plus, because we believe in supporting our students, whilst they learn we offer:*

- *all core textbooks are available electronically and in the university learning centres*
- *software licences for industry standard software are available across the campus*
- *all Personal Protective Equipment provided free of charge*
- *free UK field trips*

*All of our courses are designed to meet the latest standards for accreditation as defined by the Engineering Council and IChemE.*

## Courses

### 1. Chemical Engineering

- **BEng(Hons) 3 years full-time**
- **BEng(Hons) 4 years with a year in industry**
- **BEng(Hons) 5-6 years part-time**

### 2. Chemical Engineering with Chemistry

- **BSc(Hons) 3 years full-time**

### 3. Chemical Engineering with Pharmaceutical Science

- **BSc(Hons) 3 years full-time**

### 4. Chemistry with Chemical Engineering

- **BSc(Hons) 3 years full-time**

### 5. Chemical Engineering Foundation Year

- **4 years full-time leading to BEng or BSc**

## Entry requirements

- A-Level minimum of BBC. One A-Level must include Maths at grade B or above. Chemistry should also be passed with grade B or C
- GCSE English and Maths with grade B or C
- BTEC QCF Extended Diploma grade DDM, BTEC QCF Diploma grade DD

- Courses 2-5 listed above have a reduced entry tariff and accept a wider range of A-level subjects but do not lead to accredited qualifications. Typically, CCC at A-level are accepted. Good performance in year one will allow students to transfer to the full BEng.

If you've got other qualifications or relevant experience, check out the UCAS tariff conversion table via UCAS: [www.ucas.com](http://www.ucas.com).

International student language requirements and application guidance can be found at [www.wlv.ac.uk/international/apply](http://www.wlv.ac.uk/international/apply).

Those who do not meet the entry requirements may be offered an alternative course.

<b>Director of Studies:</b>	Prof. Phil Cox
<b>Email:</b>	<a href="mailto:enquiries@wlv.ac.uk">enquiries@wlv.ac.uk</a>
<b>Tel:</b>	01902 32 22 22
<b>Website:</b>	<a href="http://www.wlv.ac.uk">www.wlv.ac.uk</a>