ENGINEERING (CIVIL) BEng
UCAS CODE: H200
2019 ENTRY

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Engineering (Civil) BEng /

This BEng covers all the major fields of civil engineering (structures, geotechnics, fluids, design, transport studies, surveying and materials) with residential field trips throughout. Students will choose a minor engineering subject topic from a broad range offered, including aerospace, environmental engineering, sustainable building design, programming and finance.

Key information

Programme starts
September 2019

Location
London, Bloomsbury

Degree benefits

- The programme offers a world-class education brought to you by leading researchers, educators and practising engineers. It is supported by a structured personal tutorial scheme, subject-specific clinics and student mentoring.
- Our extensive links with industry provide many opportunities for vacation work experience and subsequent permanent employment.
- The programme is accredited by the Joint Board of Moderators, and if followed by a Master's level qualification, offers a route to Chartered Engineer (CEng) status.
- Studying in London is the perfect setting for civil engineering students because of the exciting range of projects underway (e.g. Crossrail) and the access to professional institutions.

Accreditation

This programme is accredited by the Joint Board of Moderators. It partially satisfies the educational base for a Chartered Engineer (CEng), and fully satisfies the educational base for an Incorporated Engineer (IEng). A programme of accredited further learning is required to fully satisfy the academic requirement for Chartered Engineer status (for example, UCL's Civil Engineering MSc).

Degree structure

In each year of your degree you will take a number of individual modules, normally valued at 15 or 30 credits, adding up to a total of 120 credits for the year. Modules are assessed in the academic year in which they are taken. The balance of compulsory and optional modules varies from programme to programme and year to year. A 30-credit module is considered equivalent to 15 credits in the European Credit Transfer System (ECTS).

Year one develops the theoretical basis of civil engineering and is structured around a series of real-world engineering problems (scenarios), intended to put your acquired knowledge into practice. You will share classes in mathematics and professional skills with other engineering students, and take part in two interdisciplinary engineering challenges. At the end of year one, there is a two-week residential field trip to Wales for surveying, stream gauging and a dam visit.

In year two core civil engineering knowledge is developed further and you will also choose a minor engineering subject from a wide range. At the end of this year there is a residential field trip to the National Construction College for a Constructionarium week.

Study of your minor subject continues into the final year, where you will also take compulsory advanced core modules and complete a substantial research project.

This degree is part of the Integrated Engineering Programme (IEP), a teaching framework that engages students in specialist and interdisciplinary activities designed to create well-rounded graduates with a strong grasp of the fundamentals of their discipline and a broad understanding of the complexity and context of engineering problems. Students register for a core discipline, but also engage in activities that span departments so the development of fundamental technical knowledge takes place alongside specialist and interdisciplinary research-based projects and professional skills. This creates degrees encouraging professional development, with an emphasis on design and challenging students to apply knowledge to complex problems.

YEAR ONE

Core or compulsory module(s)

- Applied Fluid and Soil Mechanics
- Applied Structures and Materials
- Challenges (Energy and Sustainability, Global Health)
- Civil Engineering Design
- Design and Professional Skills 1
- Engineering, Society and the Planet
- Engineering Toolkit (including Drawing, AutoCAD, and GIS)
- Mathematics, Modelling and Analysis

Optional modules

- All first-year modules are compulsory.

YEAR TWO

Core or compulsory module(s)

- Civil Engineering Scenarios
- Design and Professional Skills 2
- Geotechnics (Soil Mechanics and Geology)
- Lampeter Field Course (Surveying, Stream Gauging, Dam Visits)
- Materials and Fluids
- Mathematics, Modelling and Analysis
- Structural Analysis and Design

Optional modules

- Minor I*
  - *You will choose a minor engineering subject from a wide range to study in years two and three.
Data taken from the 'Destinations of Leavers from Higher Education' survey undertaken by HESA looking at the destinations of UK and EU students in the 2013-2015 graduating cohorts six months after graduation.

### Your learning

Teaching is delivered in a number of ways, designed to stimulate and inspire effective learning. These include: group projects, lectures, problem-solving classes, drawing and design workshops, tutorials, laboratory classes, site visits and field trips. Practising engineers also contribute to modules as external lecturers.

**Fieldwork**
The Lampeter field course at the end of the 1st year. The Constructionarium at the end of year 2.

**Placement**
Company placements are offered throughout the three years.

**Assessment**
We employ a wide range of techniques to assess your knowledge and learning, including: written examinations, coursework, video submissions, practical tests, laboratory reports, online quizzes, group projects, dissertations and poster presentations.

### Your career

This programme equips graduates with a comprehensive range of knowledge and problem solving skills. In addition to core engineering skills, the degree places emphasis on the development of transferable skills such as project management, information technology, and communication, all of which will be essential in your career.

Our graduates elect to pursue careers in many different fields and organisations. Engineering problem-solving skills are appreciated by many employers, and can lead to promotion into management roles. Our well-rounded graduates are increasingly sought after in professions beyond engineering, including banking, law and advertising.

First career destinations of recent Civil Engineering BEng graduates (2013-2015) at UCL include:

- Full-time student, MPhil in Industrial Systems, Manufacture and Management at the University of Cambridge
- Full-time student, MSc in Civil Engineering at UCL
- Full-time student, MSc in Built Environment: Environment Design and Engineering at UCL

### Your application

Application for admission should be made through UCAS (the Universities and Colleges Admissions Service). Applicants currently at school or college will be provided with advice on the process; however, applicants who have left school or who are based outside the United Kingdom may obtain information directly from UCAS.

Together with academic requirements we expect you to provide evidence of your passion for civil engineering and commitment to studying the subject. Furthermore you should demonstrate your suitability for group project work and problem-based learning in a global context, drawing upon previous educational and personal experience to do so. Any potentially extenuating circumstances will be taken into account and we will look carefully at your referees’ comments for insight into these.

Selection is based upon the strength of your personal statement and references as well as your academic achievements. Applications from students with alternative qualifications are welcome. Please contact the Admissions Team in UCL Engineering to discuss your suitability for the programme: undergraduate-admissions@ucl.ac.uk Alternatively, you can contact one of our Admissions Tutors.
Entry requirements

A LEVELS
Contextual Offer: AAB. No specific subjects.

GCSE
English Language at grade C or 5. Mathematics and Physics (or Double Award) at grade A or 7 if not offered at A level. For UK-based students, a grade C or 5 or equivalent in a foreign language (other than Ancient Greek, Biblical Hebrew or Latin) is required. UCL provides opportunities to meet the foreign language requirement following enrolment, further details at: www.ucl.ac.uk/ug-requirements

IB DIPLOMA
Standard Offer: 39. A score of 19 points in three higher level subjects, with no score lower than 5. Physics must be offered at either higher or standard level.
Contextual Offer: 36. A score of 17 points in three higher level subjects, with no score lower than 5. Physics must be offered at either higher or standard level.

CONTEXTUAL OFFERS – ACCESS UCL SCHEME
As part of our commitment to increasing participation from underrepresented groups, students may be eligible for a contextual offer as part of the Access UCL scheme. For more information see www.ucl.ac.uk/ug-requirements

OTHER QUALIFICATIONS
UCL considers a wide range of UK and international qualifications for entry into its undergraduate programmes. Full details are given at: www.ucl.ac.uk/otherqual

UNDERGRADUATE PREPARATORY CERTIFICATES (International foundation courses)
UCL Undergraduate Preparatory Certificates (UPCs) are intensive one-year foundation courses for international students of high academic potential who are aiming to gain access to undergraduate degree programmes at UCL and other top UK universities.

Typical UPC students will be high achievers in a 12-year school system which does not meet the standard required for direct entry to UCL.

For more information see: www.ucl.ac.uk/upc.

TUITION FEES
The fees indicated are for undergraduate entry in the 2019/20 academic year. The UK/EU fees shown are for the first year of the programme at UCL only. Fees for future years may be subject to an inflationary increase. The Overseas fees shown are the fees that will be charged to 2019/20 entrants for each year of study on the programme, unless otherwise indicated below.

// UK & EU: £9,250 (2019/20)
// Overseas: £26,740 (2019/20)

Full details of UCL’s tuition fees, tuition fee policy and potential increases to fees can be found on the UCL Students website.

Additional costs
If you are concerned by potential additional costs for books, equipment, etc. on this programme, please get in touch with the relevant departmental contact (details given on this page).

FUNDING
The Errol Yarimer Undergraduate Scholarship is a competitive award available for UK resident undergraduates from low-income households for the duration of a continuous full-time course of study.

Various funding options are available, including student loans, scholarships and bursaries. UK students whose household income falls below a certain level may also be eligible for a non-repayable bursary or for certain scholarships. Please see the Fees and funding pages for more details.

CONTACT
Dr Manni Bhatti
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Department: Civil, Environmental and Geomatic Engineering

EU referendum
For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to: www.ucl.ac.uk/ucl-and-europe

Disclaimer
This information is for guidance only. It should not be construed as advice nor relied upon and does not form part of any contract. For more information on UCL’s degree programmes please see the UCL Undergraduate Prospectus at www.ucl.ac.uk/prospectus