This four-year programme builds on the knowledge and experience offered in the Civil Engineering BEng programme with a final-year design project and advanced modules, and is a direct route to Chartered (CEng) Status.

Key information

Programme starts
September 2020

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. Our two residential field courses give you hands-on experience of surveying, construction and site management.

// The four-year programme is accredited by the Joint Board of Moderators (JBM) and offers a route to Chartered (CEng) Engineer status. It also incorporates a challenging capstone design project that replicates industry environments, giving you an advantage over other civil engineering graduates.

// 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 fully satisfies the educational requirements for a Chartered Engineer (CEng).

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). 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.

In year two your core civil engineering knowledge is developed further, and you will also choose a minor engineering subject from a wide range. At the end of year two there is a residential Constructionarium field trip.

Your minor subject continues into the third year. Additionally, you will undertake compulsory advanced core modules and a substantial research project. In year four you will complete a major integrated design project and choose from specialist elective modules.

In your third year you also have the option of joining the International Programme, which allows students to spend their third year in a selected university in Europe (France, Germany, Spain, Italy), the USA, Hong Kong, Japan or Australia.

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

<table>
<thead>
<tr>
<th>Core or compulsory module(s)</th>
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<tbody>
<tr>
<td>Engineering Challenges</td>
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<tr>
<td>Professional Skills in Civil Engineering</td>
</tr>
<tr>
<td>Mathematical Modelling and Analysis 1</td>
</tr>
<tr>
<td>Civil Engineering Design</td>
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<tr>
<td>Structural Mechanics</td>
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<tr>
<td>Engineering: Impact Assessment</td>
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<tr>
<td>Soil Mechanics</td>
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<tr>
<td>Materials and Applied Fluid Mechanics I</td>
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Optional modules

// All first-year modules are compulsory.
YEAR TWO

Core or compulsory module(s)

// Scenarios in Civil Engineering
// Design and Professional Skills II
// Soil Mechanics and Engineering Geology
// Surveying and Field Studies
// Materials and Applied Fluid Mechanics II
// Modelling and Analysis II
// Structural Analysis and Design

Optional modules

// Minor I
  // "You will undertake the first module of an IEP Minor subject, chosen from a wide range of options, in year two.

YEAR THREE

Core or compulsory module(s)

// Civil Engineering in Practice
// Civil Engineering Project
// Fluids and Soils III
// Structures and Materials

Optional modules

// Minor II
// Minor III
  // "You will continue with two modules in your selected IEP Minor subject from year two.

FINAL YEAR

Core or compulsory module(s)

// Integrated Design Project

Optional modules

You will select your remaining credits from a wide range of optional modules. Options may include:

// Advanced Civil Engineering Materials
// Advanced Soil Mechanics
// Advanced Structural Analysis
// Design and Analysis of Structural Systems
// Engineering Study of Rail Systems and Infrastructure
// Environmental Modelling
// Finite-Element Modelling and Numerical Methods
// Introduction to Statics and Design of Structures
// Offshore and Coastal Engineering
// Roads and Underground Infrastructure: Design, Construction and Maintenance
// Structural Dynamics
// Urban Flooding and Drainage

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 residential Lampeter field studies course at the end of Year 1, and the Constructionarium field course at the end of Year 2 are heavily subsided by the department but do require financial contributions from participants. Please note both these trips are subject to change, and incur certain costs.

Placement
Placements are provided throughout the first three years of the course.

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

Our graduates elect 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.

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 are taken into account and we 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: <a href="http://www.ucl.ac.uk/ug-reqs">www.ucl.ac.uk/ug-reqs</a>

IB DIPLOMA
Standard Offer: 39 points. 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 points. 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/prospectus

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/otherquals

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 2020/21 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 2020/21 entrants for each year of study on the programme, unless otherwise indicated below.

// UK & EU: £9,250 (2020/21)
// Overseas: £28,610 (2020/21)

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
Fieldtrip costs are estimated to be £400. It is difficult to give exact figures, but as a guide books and equipment usually cost students £100 each year. Drawing kit, water proofs and safety boots are provided free of charge in Year 1. If you are concerned by potential additional costs for books and equipment on this programme, please email cege-ug-admissions@ucl.ac.uk.

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
Email: cege-ug-admissions@ucl.ac.uk
Telephone: +44(0)20 7679 1063
Department: Civil, Environmental and Geomatic Engineering

Brexit
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/brexit

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