ENGINEERING (CIVIL) MEng
UCAS CODE: H202
2018 ENTRY

www.ucl.ac.uk/prospectus/civeng
Engineering (Civil) MEng

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. You are advised to apply for the MEng programme initially, as this offers more flexibility.

Key information

Programme starts
September 2018

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 four-year programme is accredited by the Joint Board of Moderators (JBM) and offers a route to Chartered (CEng) Engineer 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.

Research Excellence Framework (REF) 2014
The Research Excellence Framework, or REF, is the system for assessing the quality of research in UK higher education institutions. The 2014 REF was carried out by the UK’s higher education funding bodies, and the results used to allocate research funding from 2015/16.

// 60% rated 4* (‘world-leading’) or 3* (‘internationally excellent’)

Learn more about the scope of UCL’s research, and browse case studies, on our Research Impact website.

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 0.5 or 1.0 credits, adding up to a total of 4.0 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 1.0 credit 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 design 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

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, Modeling and Analysis

Optional modules

// All first-year modules are compulsory.

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, Modeling 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 Visit)
- 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.

YEAR THREE

Core or compulsory module(s)
- Civil Engineering in Practice
- Civil Engineering Project
- Fluids and Soils III
- Structures and Materials III

Optional modules
- "Minor II"
- "Minor III"
- "You will choose a minor engineering subject from a wide range to study in years two and three.

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 Soil Mechanics
  - Coastal Engineering
  - Design of Roads, Rail, Bridges, Tunnels and Embankments
  - Emerging Commercial Landscapes
  - Environmental Fluid Mechanics
  - Financial Aspects of Project Engineering and Contracting
  - Finite-Element Modelling and Numerical Methods
  - Mathematics for Engineers 3
  - Project Management
  - Seismic Design
  - Structural Dynamics with Mitigation
  - Systems Society and Sustainability
  - Transport Studies
  - Urban Flooding and Drainage

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.

First career destinations of recent Civil Engineering MEng graduates (2013-2015) at UCL include:
- Graduate Engineer, Arup
- Site Engineer, Laing O'Rourke
- Civil Engineer, Transport for London (TfL)
- Full-time student, MSc in Soil Mechanics at Imperial College London
- Engineer, China State Construction Engineering Corporation Ltd

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.

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.

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.
**Entry requirements**

**A LEVELS**

**Grades**  
A*AA-AAA

**Subjects**  
No specific subjects.

**GCSE**  
English Language at grade C. Mathematics and Physics (or Double Award) at grade A if not offered at A level.

**IB DIPLOMA**

**Points**  
38-39 overall.

**Subjects**  
A score of 18-19 points in three higher level subjects, with no score lower than 5. Physics must be offered at either higher or standard level.

**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](http://www.ucl.ac.uk/otherquals)

**UNDERGRADUATE PREPARATORY CERTIFICATES**  
(International foundation courses)

The 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](http://www.ucl.ac.uk/upc).

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**TUITION FEES**

The fees indicated are for undergraduate entry in the 2017/18 academic year and are for the first year of the programme at UCL only. Fees for 2018 entry will appear here as soon as they are available.

- **UK & EU:** £9,250 (2017/18 - see below)
- **Overseas:** £23,710 (2017/18)

The UK/EU fee quoted above may be subject to increase for the 2018/19 academic year and for each year of study thereafter and UCL reserves the right to increase its fees in line with UK government policy (including on an annual basis for each year of study during a programme). Fees for overseas students may be subject to an annual increase in subsequent years of study by up to 5%.

Please see the full details of UCL’s fees and possible changes on the UCL Current Students website.

**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**

Ms Liz Jones  
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Telephone: +44 (0)20 7679 7726  
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/eu-referendum](http://www.ucl.ac.uk/eu-referendum)

**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](http://www.ucl.ac.uk/prospectus)