ENGINEERING (ELECTRONIC AND ELECTRICAL) MEng / UCAS CODE: H601
2019 ENTRY

www.ucl.ac.uk/prospectus
Electronic and electrical engineers invent and create the technology that typifies today's high-tech society, and this four-year programme provides a thorough coverage of the theory, devices and systems that underpin it. Applying for the MEng provides the most flexibility with the opportunity to specialise at the end of year two.

**Key information**

**Programme starts**  
September 2019  

**Location**  
London, Bloomsbury

**Degree benefits**

- You will benefit from the intellectual challenge and stimulation deriving from our world-class research.
- You will have access to state-of-the-art software and instruments in our extensive teaching laboratories. We offer professional practice sessions, a three-day residential course, and opportunities for team work.
- The degree is part of an integrated programme across engineering providing you with opportunities to broaden your horizons through interactions with other disciplines. There is also the flexibility to add a specialism to your MEng programme towards the end of year two, to match your evolving interests.

**Accreditation**

All our MEng programmes have been accredited by the IET as fully meeting the academic requirements for registration as a Chartered Engineer.

**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).

In the first and second years you will cover material fundamental to electronic and electrical engineering. You will make your final choice between the BEng or one of the MEng programmes towards the end of the second year. You will have the choice of the following routes: with Communications; with Computer Science; with Nanotechnology; or the International Programme. Applying initially for a MEng will give you the most control over your plans.

The International Programme enables students to spend their third year in a selected university in Europe (France, Germany, Spain, Italy), the USA or Australia.

Project work is undertaken every year, and your final year will include a substantial project. The work is varied. There are projects to suit all tastes, ranging from original research to intricate design and development of software and devices.

In years three and four you will choose options from a wide range of electronic engineering subjects and may select modules from other departments such as UCL Computer Science, the UCL School of Management, and UCL Medical Physics & Biomedical Engineering.

This degree is part of the IEP, a teaching framework that engages students in specialist and interdisciplinary engineering 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 modules(s)**

- Analogue and Power Electronics  
- Design & Professional Skills  
- Digital Systems  
- Engineering Challenges  
- Introduction to Electronic Engineering  
- Mathematical Modelling and Analysis  
- Physics of Electronics  
- Programming I  
- Signals and Systems

**Optional modules**

- All first-year modules are compulsory.
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.
Entry requirements

A LEVELS
Standard Offer: AAA. Mathematics required, plus either Physics or Further Mathematics preferred.

Contextual Offer: ABB. A in Mathematics with Physics or Further Mathematics preferred as the second subject.

GCSE
English Language and Mathematics at grade C or 5. 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: 38. A score of 18 points in three higher level subjects including grade 6 in Mathematics and preferably Physics, with no score lower than 5.

Contextual Offer: 34. A total of 16 points in three higher level subjects including grade 6 in Mathematics and preferably Physics, with no score lower than 5.

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 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
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
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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