This four-year programme is similar to the equivalent BEng degree, but offers an additional year in which to undertake advanced modules and projects. Applying for the MEng rather than the BEng allows students to fulfil the educational requirement for Chartered Engineer status with a single qualification.

**Key information**

**Programme starts**
September 2018

**Location**
London, Bloomsbury

**Degree benefits**

- Our top-quality laboratory and testing facilities include materials testing equipment, wind tunnels, two large wave tanks and an array of engine test cells.
- You will benefit from our internationally renowned research expertise as this cutting-edge knowledge is passed on to you through our teaching.
- Although not the primary objective, our programmes are proving extremely successful in training graduates for employment in the fields of commerce, banking and management consultancy.
- The programme is highly respected both within the UK and abroad.

**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.

- 90% 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](#).

**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).

The MEng programme is similar to the BEng programme for the first two years and you can transfer between them at the end of the second year if you satisfy certain performance criteria. Applying for a MEng initially helps keep your options open.

The programme includes core mathematical, computing and mechanical engineering subjects. You will also study economics and accountancy. Your individual project in the third year will include a business element, but will primarily be concerned with engineering.

The same structure is in place for the group design project in your final year.

This degree is part of the Integrated Engineering Programme (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.

Students may opt to take a year working in industry between the third and the fourth years of the programme. This posting needs UCL approval in advance, and students are required to write a comprehensive report on their work and what they have learnt during the year. The report is assessed, and the marks are given some weighting in the overall classification of the degree.

**YEAR ONE**

<table>
<thead>
<tr>
<th>Core or compulsory module(s)</th>
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<tbody>
<tr>
<td>Accounting for Business</td>
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<tr>
<td>Design and Professional Skills</td>
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<tr>
<td>Engineering Dynamics</td>
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<tr>
<td>Integrated Engineering</td>
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<tr>
<td>Introduction to Mechanical Engineering</td>
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<tr>
<td>Introduction to Thermodynamics and Fluid Mechanics</td>
</tr>
<tr>
<td>Mechanical Engineering Practical Skills</td>
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<tr>
<td>Modelling and Analysis</td>
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**Optional modules**

- All first year modules are compulsory.
YEAR TWO

Core or compulsory module(s)

- Business Economics for Engineers
- Control and Instrumentation
- Design and Professional Practice
- Fundamentals of Materials
- Mathematical Modelling and Analysis
- Mechanics of Solids
- Thermodynamics and Fluid Mechanics
- Students will also take one finance/accountancy module from the Integrated Engineering Programme in:
  - Managerial Accounting for Engineers

Optional modules

- All second year modules are compulsory.

YEAR THREE

Core or compulsory module(s)

- Advanced Thermodynamics and Fluid Mechanics
- Dynamics and Control
- Elasticity and Plasticity
- Engineering Materials
- Individual Project
- Students will also take two modules from the Integrated Engineering Programme in:
  - Corporate Financial Strategy
  - Industrial Organisations

Optional modules

- All third year modules are compulsory.

FINAL YEAR

Core or compulsory module(s)

- Dynamics and Control
- Group Design Project
- Project Management
- A multi-disciplinary option where you will work with students across the faculty.

Optional modules

- You will have choose three optional modules from a list which may include:
  - Applied Thermodynamics and Turbomachinery
  - Electrical Machines and Power Electronic Drives
  - Electrical Power Systems and Electrical Propulsion
  - Foreign Language
  - Materials and Fatigue/Fracture Analysis
  - Power Transmission and Auxiliary Machinery Systems
- You will also study a multidisciplinary option.

EXTRAMURAL YEAR

Your learning

You will be taught in a variety of ways, including lectures, tutorials, laboratory classes, computer workshops and project work. Along with our computing facilities we have extensive equipment and apparatus, housed in our main laboratories, which are used for taught laboratory classes and for your project work.

Assessment

Most subjects are examined through a combination of end-of-year examinations and coursework, but some are solely examined through coursework, for example, computing, design and projects. To remain on the MEng programme you are required to maintain a standard equivalent to (at least) lower second-class Honours level throughout your studies.

Your career

The programme aims to equip you with the fundamental analytical and design skills necessary to become a professional mechanical engineer in your chosen field of employment; together with a sound knowledge of management, finance, and business administration subjects which are necessary for management and the commercial departments of engineering companies.

Your career options can be in a variety of fields including aerospace, railways, motor vehicle design, manufacturing and medical engineering. The programme also equips you with the skills to secure a job in commerce, banking, and management consultancy.

First career destinations of recent graduates (2013-2015) of this programme at UCL include:

- Business Analyst, Deutsche Bank
- Analyst, Evalucom Consulting
- Junior Associate, Accenture
- Engineer, Thales Group
- Full-time student, MSc in Astronautics and Space Engineering at Cranfield University

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.

In addition to our essential academic requirements, we will expect your application to explain how you became interested in the subject, and what steps you have taken to discover more about studies and careers in engineering.

Successful UK-based applicants will be invited to a UCAS Day where they can tour the department and meet with academic staff and students. Successful applicants not based in the UK will be able to access a virtual open day.
Entry requirements

**A LEVELS**

**Grades**
A*AA-AAA

**Subjects**
Mathematics required, plus Physics preferred. Further Mathematics acceptable in lieu of Physics (see GCSE requirements). Economics preferred as third subject, but not essential.

**GCSE**
English Language, Mathematics at grade C, plus Physics grade C if not offered at A level. For UK-based students, a grade C 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-reqs

**IB DIPLOMA**
Points
38-39 overall.

**Subjects**
A score of 18-19 points in three higher level subjects including Mathematics at grade 6, plus Physics at grade 6 preferred, with no score below 5. Economics preferred as third higher level subject, but not essential.

**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)**
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.

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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.

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<tr>
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<th>UK &amp; EU: £9,250 (2017/18 - see below)</th>
<th>Overseas: £23,710 (2017/18)</th>
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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**
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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Email: ugadmissions@meng.ucl.ac.uk
Telephone: +44 (0)20 7679 7178
Department: Mechanical 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

**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