ENGINEERING (MECHANICAL WITH BUSINESS FINANCE)
BEng /
UCAS CODE: H1N3
2019 ENTRY

www.ucl.ac.uk/prospectus
Engineering (Mechanical with Business Finance)  
BEng /

This programme is designed to produce engineering graduates with a well-rounded understanding of economics, accounting and business practice. These skills are precisely those required by industry from graduates who are likely to be given significant managerial responsibility at an early stage in their career.

**Key information**

**Programme starts**  
September 2019  

**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.

// We offer you a degree that is highly respected both within the UK and abroad.

**Accreditation**

The programmes are accredited by the Institution of Mechanical Engineers (IMechE) as meeting the academic base requirements, in part, for registration as a Chartered Engineer for the 2014-2021 student cohort intakes.

**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).

The BEng programme is similar to the MEng programme for the first two years and you can transfer between them up to the end of the second year if you satisfy certain performance criteria. The BEng is suitable for students who might wish to undertake graduate studies in the future (e.g. an MSc or PhD) or who do not necessarily seek Chartered Engineer status after they graduate. 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 subjects.

Your individual project in the final year will include a business element, but will primarily be concerned with engineering.

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 second and third 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.

**YEAR ONE**

**Core or compulsory module(s)**

// Accounting for Business  
// Design and Professional Skills  
// Engineering Dynamics  
// Engineering Challenges  
// Introduction to Mechanical Engineering  
// Introduction to Thermodynamics and Fluid Mechanics  
// Mathematical Modelling and Analysis I  
// Mechanical Engineering Practical Skills

**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 Skills II (for Mechanical Engineers)
- Fundamentals of Materials
- Intermediate Thermodynamics and Fluid Mechanics
- Managerial Accounting for Engineers
- Mathematical Modelling and Analysis II
- Mechanics of Solids and Structures

Optional modules

- All second year modules are compulsory.

FINAL YEAR

Core or compulsory module(s)

- Advanced Thermodynamics and Fluid Mechanics
- Corporate Financial Strategy
- Dynamics and Control
- Elasticity and Plasticity
- Engineering Materials: Failure and Design
- Individual Project
- Industrial Organisations

Optional modules

- All final year modules are compulsory.

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 transfer into a 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 include:

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 an offer holder 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


GCSE
English Language and Mathematics at grade C or 5, plus Physics at grade C or 5 if not offered at A level. For UK-based students, a grade C or 5 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
Standard Offer: 39. A score of 19 points in three higher level subjects including Mathematics and Physics, with no score lower than 5. Higher Level 7 required in Mathematics or Physics. Economics preferred as third higher level subject, but not essential.

Contextual Offer: 38. A score of 18 points in three higher level subjects including Mathematics and Physics, with no score lower than 5. Higher Level 7 required in Mathematics or Physics. Economics preferred as third higher level subject, but not essential.

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