The Mechanical Engineering MSc is designed to offer an advanced level of study in specific aspects of mechanical engineering that are in demand from industry. The degree comprises study in analysis and design of power machinery systems, engineering structures, vibration, control and the use of computers in advanced engineering analysis.

Degree summary

You will develop an advanced knowledge of mechanical engineering and associated disciplines, alongside an awareness of the context in which engineering operates, in terms of safety, environmental, social and economic aspects. Alongside this you will gain a range of intellectual, practical and transferable skills necessary to develop careers in this field.

// UCL Mechanical Engineering scored highly in the UK's most recent Research Excellence Framework survey with research in such diverse areas as Formula 1, biomedical engineering and naval architecture. The department is located in the centre of one of the most dynamic cities in the world.

// The department has an international reputation for the excellence of its research which is funded by numerous bodies including: the Royal Society, the Leverhulme Trust, UK Ministry of Defence, BAE Systems, Cosworth Technology, Shell, BP, Lloyds Register Educational Trust, and many others.

// The Mechanical Engineering MSc has been accredited by the Institute of Mechanical Engineers (IMechE) and the Institute of Marine Engineering, Science & Technology (IMarEST) as meeting the further learning requirements, in full, for registration as a Chartered Engineer for a period of five years, from the 2017 student cohort intake.

This dynamic programme is delivered through a combination of lectures, seminars, tutorials and example classes all of which frequently draw upon real-life industrial case studies. Each module is assessed by coursework submission alone or a combination of examination and coursework. Some include an oral presentation of project or assignment work.

Degree structure

Mode: Full-time: 1 year
Location: London, Bloomsbury

Students undertake modules to the value of 180 credits. The programme consists of six core modules (90 credits), optional modules (15 credits), and a research project (75 credits).

CORE MODULES
- Advanced Computer Applications in Engineering
- Group Project
- Materials and Fatigue
- Vibrations, Acoustics and Control
- Project Management
- Power Transmission and Auxiliary Machinery Systems

OPTIONAL MODULES
- One of the following subject to availability:
  - Applied Thermodynamics and Turbomachinery
  - Heat Transfer and Heat Systems
  - New and Renewable Energy Systems

DISSERTATION/REPORT
- Culminating in a substantial dissertation, the research project, which often has industry input, focuses your research interests and develops high-level presentation and critical thinking skills.
Your career

Engineering graduates with good analytical abilities are in high demand and our graduates have little difficulty gaining employment across many industries. The programme specifically aims to equip students with skills in analysis and design such that they can be employed as professional engineers in virtually any sector of the mechanical engineering industry.

Recent career destinations* include:

// Graduate Mechanical Engineer, Babcock
// Graduate Trainee, Jaguar Land Rover
// Petroleum Engineer, Total
// Facility Engineer, Nigerian Agip Oil Company (NAOC)
// PhD in Mechanical Engineering, UCL

Employability

Delivered by leading researchers from across UCL, you will definitely have plenty of opportunities to network and keep abreast of emerging ideas. Collaborating with companies and bodies such as the Ministry of Defence and industry leaders such as BAE Systems and Shell are key to our success and we will encourage you to develop networks through the programme itself and via the department’s careers programme which includes employer-led events and individual coaching. We equip our graduates with the skills and confidence needed to play a creative and leading role in the professional and research community.

* Careers data is 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 minimum of an upper second-class Bachelor’s degree from a UK university in a suitable engineering subject or an overseas qualification of an equivalent standard. Candidates with qualifications in other subjects will be considered. Candidates must have studied fluid dynamics while knowledge of thermodynamics and control is desirable. Applicants who are yet to complete their degree should include a list of subjects they are currently studying as well as those already completed.

English language proficiency level

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at: www.ucl.ac.uk/graduate/english-requirements

Your application

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:

// why you want to study Mechanical Engineering at graduate level
// why you want to study Mechanical Engineering at UCL
// what particularly attracts you to this programme
// how your academic and/or professional background meets the demands of a challenging programme
// where you would like to go professionally with your degree

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

Application fee: There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. More details about the application fee can be found at www.ucl.ac.uk/prospective-students/graduate/taught/application.

FEES AND FUNDING 2018/19 ENTRY

// UK: £12,380 (FT)
// EU: £12,380 (FT)
// Overseas: £25,880 (FT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Current Students website.

Students from participating countries are eligible for Erasmus+ Master Degree Loans (see www.erasmusplus.org.uk for more information).

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

APPLICATION DEADLINE

All applicants: 1 March 2018

Details on how to apply are available on the website at: www.ucl.ac.uk/graduate/apply

CONTACT

Ms Louisa Ball, Programme Administrator

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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/eu-referendum