Engineering and Education MSc /

This flexible and unique MSc is designed for engineers, teachers of engineering and engineering policy makers. It aims to develop the skills and knowledge required to lead change, lead teams, enhance the performance of engineers in industry, improve the quality of engineering education in universities, and influence engineering education policy. The programme focuses on how to develop innovative strategies to improve engineering education.

Degree summary

The degree will provide you with a mix of theoretical and practical ideas and frameworks to creatively re-design and deliver all aspects of engineering education. A focus on leadership and the development of professional skills is emphasised throughout, with inputs from industry experts, UCL researchers and policy stakeholders.

The degree offers a unique opportunity to be taught by specialists from two world-leading research faculties - the UCL Institute of Education (IOE) and the Faculty of Engineering Sciences. Both have extensive expertise and experience in research, knowledge transfer and consultancy in engineering education nationally and internationally, including researching in engineering companies and working with engineering institutes, government departments and NGOs.

Students will also have access to the Centre for Engineering Education (CEE), a community of researchers and practitioners which focuses on transitions from school/college into and through engineering degrees and employment, offering opportunities to further update knowledge and skills. The flexibility of the degree enables students to design a programme of study which reflects their professional and personal interests, supports their career development, and prepares them to work more effectively at a national or international level, as well as supporting others to do so.

The programme combines innovative classroom teaching methods with unique group-based and scenario-based learning, enabling students to dynamically engage with current engineering education challenges. Group work and scenarios are designed to help students consolidate knowledge, develop essential practical skills and their understanding of principles, and share knowledge and experience to enhance their employability.

Degree structure

Mode: Full-time: 1 year; Part-time: 2 years; Flexible: up to 5 years
Location: London, Hackney Wick (Here East) and London, Bloomsbury

Students undertake modules to the value of 180 credits. The programme consists of two core modules (60 credits), two optional modules (60 credits), and a dissertation (60 credits).

Please note that the list of modules given here is indicative. This information is published a long time in advance of enrolment and module content and availability is subject to change.

**Compulsory Modules**
- Engineering and Education: Practice, Innovation and Leadership
- Engineering Learning and Teaching: Perspectives and Issues

**Optional Modules**
- Vocational Learning
- Professionalism and Expertise: theories and perspectives
- Professional Enquiry
- Learning and working in international contexts and organisations
- Science, Technology and Engineering Advice in Practice
- Communicating Science for Policy
- Energy, Technology and Climate Policy
- Energy Systems and Sustainability
- Introduction to Programming

Students can choose from modules, up to the value of 60 credits, offered by UCL Engineering and the IOE.

Visit the UCL Institute of Education website for more information, including module descriptions, which can be seen by clicking on the module title.

**Dissertation/Report**
- Working with the support of tutor, dissertations can be tailored to reflect students' current or future interests. Dissertations can therefore take the form of an investigation into an engineering education problem, a sustained critical appraisal of a relevant issue, or the scoping of an educational solution to an engineering problem.
Your career

The MSc has been designed to help students to upgrade their theoretical and practical capabilities to lead change, lead teams and enhance the performance of engineers in industry, enhance the quality of engineering education in universities and influence engineering education policy.

Employability

Students will further develop their capability to:
- design/redesign engineering programmes
- develop national or company-specific policies for engineering education
- work with and lead culturally diverse learning communities
- research and write about engineering education for different audiences.
Entry requirements

A minimum of a second-class Bachelor's degree from a UK university or an overseas qualification of an equivalent standard.

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: Good.

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 assessing your application, we are particularly looking to understand:

\(\text{why you want to study Engineering and Education at graduate level}\)
\(\text{what particularly attracts you to the programme at UCL}\)
\(\text{how your academic and professional background and interests meet the demands of this challenging programme}\)
\(\text{where you would like to go professionally with your degree and how the MSc fits with your career goals.}\)

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

FEES AND FUNDING 2019/20 ENTRY

\(\begin{align*}
\text{UK:} & \quad £8,680 \text{ (FT), £4,470 (PT)} \\
\text{EU:} & \quad £8,680 \text{ (FT), £4,470 (PT)} \\
\text{Overseas:} & \quad £18,790 \text{ (FT), £9,570 (PT)}
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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 Students website.

Fees for flexible, modular study are charged pro-rata to the appropriate full-time Master's fee taken in an academic session.

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

APPLICATION DEADLINE

All applicants: 26 July 2019

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

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/brexit