CIVIL ENGINEERING (WITH RAILWAYS) MSc /
2019/20 ENTRY

www.ucl.ac.uk/graduate/
The Civil Engineering MSc at UCL now offers seven additional specialist routes which reflect the expertise within the department and the expanding career paths of civil engineers. This programme is for those students who wish to combine a general MSc in the subject with the related discipline of Railways.

Degree summary

The programme aims to provide students with a solid academic background in a broad range of civil engineering topics and advanced skills in problem-solving necessary for a successful career in the sector. This route will also offer you the opportunity to gain specialist knowledge in your chosen area of environmental systems and provide a clear path to a professional career in civil engineering.

Civil, Environmental & Geomatic Engineering at UCL is an energetic and exciting environment. Students have the advantages of studying in a multidisciplinary department with a long tradition of excellence in teaching and research, situated in the heart of London. We carry out advanced research in structures, environmental engineering, laser scanning and seismic design.

This MSc covers all the major areas of civil engineering, reflecting the broad range of expertise available within the department and its strong links with the engineering profession across the UK and beyond. There is a strong emphasis on developing skills within a teamwork environment, equipping students for subsequent professional practice.

The programme is delivered through lectures, tutorials, seminars, laboratory classes and field trips. The research project includes laboratory, computational or fieldwork depending on the nature of the project. Assessment is through examinations, coursework, project reports and the research project.

Degree structure

Mode: Full-time: 1 year
Location: London, Bloomsbury
Part time students will usually attend 2 days per week

Students undertake modules to the value of 180 credits. The programme consists of four core modules including three specialist modules and one professional development module (60 credits), four optional modules (60 credits) and a research project (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 Study of Rail Systems
- Urban Railway Planning and Analysis
- Urban Railway System Integration
- Project Management (Professional Development Module)

### Optional Modules

Students choose four options from two groups:

**Group A - Technical** - Minimum of 3, Maximum of 4
- Advanced Civil Engineering Materials
- Data Analysis
- Design & Analysis of Structural Systems
- Engineering Surveying
- Environmental Fluid Mechanics
- Environmental Modelling
- Environmental Systems
- Finite Element Modelling and Numerical Methods
- Intro Seismic Design of Structures
- Natural and Environmental Disasters
- Offshore & Coastal Engineering
- Quantitative Analysis and Data Science
- Roads and Underground Infrastructure: Design, Construction and Maintenance
- Structural Dynamics

**Group B - Non Technical** - Minimum of 0, Maximum of 1
- Intro Seismic Design of Structures
- Natural and Environmental Disasters
- Offshore & Coastal Engineering
- Quantitative Analysis and Data Science
- Roads and Underground Infrastructure: Design, Construction and Maintenance
- Structural Dynamics

Please Note: Due to timetable constraints it may not be possible to take all your preferred options

### Dissertation/Report

All students undertake an independent research project which culminates in a dissertation of 10,000-15,000 words.
Your career

Civil Engineering graduates are readily employed by consultancies, construction companies and government departments.

Employability

There are excellent employment prospects for our graduates. There is international demand for multi-skilled, solutions-focused professionals who can take a holistic approach to solving problems.
Entry requirements

A minimum of an upper second-class UK Bachelor's degree in civil or structural engineering or a closely related subject, or an overseas qualification of an equivalent standard. Applicants with a good performance in the core subjects (design, structures, geotechnics, and fluids) or extensive work experience covering these areas may be considered. For non-civil or structural engineering candidates we offer a Graduate Diploma in Civil Engineering, recognised by our accrediting body (the Joint Board of Moderators), which can be used as a pre-qualifying year for the Civil Engineering MSc.

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

When we assess your application we would like to learn:

- why you want to study Civil Engineering (with Railways) at graduate level
- why you want to study Civil Engineering (with Railways) at UCL
- what particularly attracts you to the chosen programme
- how your academic and professional background meets the demands of this 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. Applicants who have a portfolio are strongly recommended to submit it when they apply.

FEES AND FUNDING 2019/20 ENTRY

UK: £12,750 (FT), £6,375 (PT)
EU: £12,750 (FT), £6,375 (PT)
Overseas: £26,660 (FT), £13,340 (PT)

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.

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