CIVIL ENGINEERING (WITH SEISMIC DESIGN) MSc / 2017/18 ENTRY

www.ucl.ac.uk/graduate/cege
The Civil Engineering MSc at UCL now offers five additional specialist routes which reflect the expertise within the department and 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 seismic design.

**Degree summary**

The programme provides students with a strong 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 seismic design 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 at 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.

**Accreditation**

This degree is accredited, as a Technical MSc, as meeting the requirements for Further Learning for a Chartered Engineer (CEng) for candidates who have already acquired a partial CEng accredited undergraduate first degree. See [www.jbm.org.uk](http://www.jbm.org.uk) for further information.

**Degree structure**

Mode: Full-time: 1 year; Part-time: 2 years
Location: London, Bloomsbury

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).

A Postgraduate Diploma, four core modules (60 credits), four optional modules (60 credits) is also offered.

### CORE MODULES
- Seismic Design of Structures
- Structural Dynamics
- Seismic Risk Assessment
- Project Management (Professional Development Module)

### OPTIONAL MODULES
- Students choose four from the following:
  - Advanced Soil Mechanics
  - Advanced Structures
  - Anatomy of a Railway
  - Applied Building Information Modeling
  - Building Engineering Physics
  - Coastal Engineering
  - Data Analysis
  - Engineering and International Development
  - Environmental Modeling
  - Environmental Systems
  - GIS Principles and Technology
  - Introduction to Seismic Design of Structures
  - Natural and Environmental Disasters
  - Principles and Practices of Surveying

Please note: combinations of different modules will be determined by timetable constraints

### DISSERTATION/REPORT
- All students undertake an independent research project which culminates in a dissertation of 10–15,000 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 who do not meet the standard entry criteria may be asked to provide a portfolio demonstrating existing engineering and design skills. 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 and its specialist routes.

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 Civil Engineering (with Seismic Design) at graduate level
- why you want to study Civil Engineering (with Seismic Design) 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.