

# ME Civil Engineering (dual degree)

Two Years Full Time (September start)



## Introduction

Globally, Civil Engineers are essential to the provision of transportation systems, bridges, buildings and other infrastructure, clean water, waste management, and earthworks. With ever increasing global population, global urbanisation and global concerns about climate change, the formal training of engineers in a global context becomes crucial. This programme offers\* students the chance

to develop their engineering skills in both University College Dublin and Columbia University, New York and to graduate with a dual degree from both universities. The benefits to both graduates and the industry as a whole will be in the training of high-quality graduates with global knowledge and training of European and American engineering practices.

## Course Highlight

Students have the opportunity to study in New York city for a year and receive a dual degree from New York's Columbia University (ranked 16th best university in the world) and University College Dublin. Students will complete a mixture of taught modules, a work placement and research over the course of their studies on this programme.

## Course Content and Structure

- 120 ECTS credits + 30 US credits
- 60 ECTS completed in first year in UCD. 30 US credits in second year in New York (this equates to 60 transfer ECTS credits from UCD)
- Stage 1 in UCD comprises 6 core modules in the Autumn Trimester (30 ECTS) and either a Professional Work Experience placement (30 ECTS) which runs across the Spring and Summer Trimesters or a Design Project (10 ECTS) plus Option Modules (20 ECTS) which are undertaken in the Spring Trimester.
- Research Credit Requirements for Stage 2 are equal to 6 US credits from supervised research + 6 US credits from research-intensive course modules. Modules in Columbia will be chosen in consultation with the Programme Director.

### Core UCD modules:

- Innovation Leadership
- Civil Engineering Systems
- Water Engineering
- Geotechnics
- Design of Structures
- Quantitative Methods for Engineers
- Product Design
- Interfacial Engineering

### Optional UCD modules:

- Advanced Air Pollution
- Environmental Engineering
- Transportation Ops & Planning
- Water & Wastewater Treatment
- Hydraulic Engineering Design
- Bridge Engineering
- Water Waste and Environmental
- Highway Engineering
- Professional Engineering Management
- Statistical Machine Learning

## Why study at UCD?



### Graduate education

12,800 graduate students; 17% graduate research students; structured PhDs



### Global community

9,500 international students and a 300,000 alumni network across 165 countries



### Global Profile

UCD is ranked in the top 1% of higher education institutions worldwide



### Global careers

Dedicated careers support; 2-year stayback visa to work in Ireland

*\*Students will need to have a minimum GPA of 3.08 from UCD (equivalent to 2:1) and with the support of UCD make an application to Columbia University for acceptance. Students who are unsuccessful will complete Stage 2 of their degree in UCD.*



## Career Opportunities

There are excellent job opportunities for graduates of this dual master's programme in civil engineering design and construction, damage assessment and disaster relief, working in the developing work as engineers with NGOs, project management and site management. Established civil engineering employers with a presence in both Ireland, the US and around the world include Arup, Jacobs and AECOM.

## Programme Director

Dr Ekin Ozer



While this dual-master's programme is new, the discipline of civil engineering is well-established and has a long-standing history in both UCD and Columbia University. Students will have the opportunity to learn in both institutes, each with an excellent track record in teaching and research. Students graduating with this dual-master's degree from UCD and Columbia will have international experience that is unrivalled in the global world of civil engineering. Society will clearly benefit from engineers with global training of both European and American practices.

## Applicant Profile

- For UCD:** A first cycle honours (2:1) bachelor's degree in civil engineering or equivalent and the appropriate prior learning.

Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.

- For Columbia:** GPA of 3.08 or better from UCD (equivalent to 2:1 or better)

The Graduate Record Examination (GRE) is not required for the 2024 admission cycle. If you have taken the exam and would like to provide your scores, you may, but it is not required. Students who do not submit scores will not be penalized in the graduate admissions review process.

## International Fees and Scholarships

Tuition fee information is available on [www.ucd.ie/fees](http://www.ucd.ie/fees). Please note that UCD offers a number of graduate scholarships for full-time, self-funding international students, holding an offer of a place on a UCD masters programme. Please see [www.ucd.ie/global/scholarships/](http://www.ucd.ie/global/scholarships/) for further information.

## Related Masters Programmes of Interest

- MEngSc Structural Engineering
- MEngSc Water, Waste & Environmental Engineering
- ME Civil, Structural & Environmental Engineering

### CONTACT US

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**W:** [www.ucd.ie/global](http://www.ucd.ie/global)

### APPLY NOW

This programme receives significant interest so please apply early online at [www.ucd.ie/apply](http://www.ucd.ie/apply)