

MEngSc Structural Engineering

One Year Full Time / Two Years Part Time



Introduction

Studying at master's level, you will cover a wide range of topics not traditionally covered in undergraduate degrees. The programme includes specialist modules in structural dynamics, bridge engineering, structural design and professional engineering. You will also learn how to work in a multidisciplinary setting through combined modules with non-Engineering students. Structural engineering is a continually evolving

profession, and through the third trimester Research Project you will learn how to apply this specialist knowledge to develop new concepts and ideas under the supervision of research-active academic staff. This programme will distinguish you as having specialist knowledge in the area of Structural Engineering and provide you with a competitive edge over your peers in the job market.

Course Highlight

This programme is delivered by a highly research-intensive school, which is in the top 150 in the QS world subject rankings. An example of this research activity is the coordination of the 3.7 million euro EU Horizon 2020 TRUSS Innovative Marie Skłodowska-Curie Innovative Training Network, to develop tools for improving the maintenance and management of aging infrastructure.

Course Content and Structure

- 90 credits taught masters
- 60 credits taught modules
- 30 credits dissertation

Modules include:

- Realising Built Projects
- Analysis of Structures 3
- Innovation Leadership
- Structural Dynamics
- Advanced Materials
- Quantitative Methods for Engineers
- Agency: Design/Build
- Design of Structures 3
- Bridge Engineering
- Geotechnics 4
- Professional Engineering (Management)
- Structural Research Project

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





Career Opportunities

Our graduates would typically follow careers in structural engineering consultancy, engineering contracting, construction management, and project planning both in Ireland and abroad. Employed at master's level, graduates can expect more responsibility, and faster professional progression, earlier in their careers. Graduates have progressed to career opportunities in a broad range of internationally recognised companies including: Roughan O'Donovan, Arup, Sisk, Jacobs, RPS, OCSC, Walls, Ward & Burke, and Mott McDonald amongst others.

Graduate Profile

Angelene Dascanio
Thornton Tomasetti



This master's is fast paced, challenging, and encompasses the skills required for a career in structural engineering. It includes both general and specialty concepts; for example, I took modules in steel and concrete design, but was also able to take a bridge engineering module to fulfil my interest in that particular field. I was initially drawn to the programme because it uniquely incorporates some architecture modules into its curriculum. During the academic year I was able to focus solely on my coursework, meet with my professors for extra help, and study for examinations. Then, during the summer, my efforts were placed on carrying out a research project with the guidance of a professor in my field of interest. As an international student (from America), I felt welcomed by the faculty and fellow classmates.

Applicant Profile

- ◆ Applicants must hold a bachelor's degree in Civil or Structural Engineering with a minimum upper second class honours (NFQ level 8) or international equivalent.
- ◆ 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.
- ◆ Students who do not meet the IELTS requirement may wish to consider taking the Pre-Sessional or Pre-Masters Pathway. Full details <https://www.ucd.ie/alc/programmes/pathways/>

International Fees and Scholarships

Tuition fee information is available on 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/ for further information.

Related Masters Programmes of Interest

- ME Optical Engineering
- MEngSc Electronic & Computer Engineering
- MSc Advanced Software Engineering
- MSc Computer Science NL (Negotiated Learning)
- MSc Information Systems

CONTACT US

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This programme receives significant interest so please apply early online at www.ucd.ie/apply