

Civil Engineering

BSc [Engineering Science] [NFQ Level 8]
leading to ME [NFQ Level 9]
or BE [Hons] [NFQ Level 8]

Engineering NUS1

Length of Course 3 Years [BSc] [Hons]
+2 Years [ME] or 4 Years [BE]

Guideline Entry Requirements

IB- International Baccalaureate Diploma*
IB Total 34

Subject Requirements

Maths: 5 at Higher Level
Lab Science: 4 at Higher Level

Cambridge A Level [+ GCSE O Level]
ABBB / AAA / AAB+ CAS Level

Subject Requirements

Maths: A Level Grade C
Lab Science: A Level Grade D

Other Examinations

See www.ucd.ie/international

International Foundation Year

Yes. See www.ucdisc.com

Internship Opportunity

Yes

**please note IB requirements are under review at the time of printing.
See www.ucd.ie/international/ib*

Other courses of interest

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|--|------|
| Engineering | →182 |
| Mechanical Engineering | →188 |
| Structural Engineering with Architecture | →189 |
| Landscape Architecture | →189 |



Cable-stayed bridge.

"From a very young age, I've always wanted to be a Civil Engineer. Studying Civil Engineering at UCD has allowed me to apply practical knowledge to the real world through lectures, field trips, lab work and tutorials. Working as a Civil Engineer is a rewarding profession where the work you do influences where people work, learn, relax and live. As technology changes and as population growth continues, civil engineers adapt the resources and infrastructure we have to meet our needs. As part of the Professional Work Experience module, I worked with an Irish owned company, Ward and Burke Microtunnelling in Canada. I graduated from UCD in 2018 with a Master's in Civil Engineering and was offered a full-time position before I even graduated. I'm currently based in Toronto, installing underground tunnels for water and wastewater."

Larry Gaule Graduate

Why is this course for me?

Civil Engineering deals with the design, construction and maintenance of the physical and naturally built environment. It includes the design of bridges, buildings, roads and dams, and works relating to management of our water resources. The work of civil engineers is evident all around us and their contribution to society is huge. This work incorporates environmental protection; large-scale construction projects; ensuring the provision of safe drinking water; designing and implementing strategies for treating wastewater and pollutants; development of transport infrastructure; flood prevention; and the design of foundations for different ground conditions.

Skills for meeting these requirements are developed in UCD Civil Engineering, in core areas of structural design, water and environmental engineering, transport engineering and geotechnical (soil and foundation) engineering.

What will I study?

First Year

Engineering students follow a common first year. Modules include:

Chemistry • Creativity in Design • Electrical/Electronic Engineering • Energy Engineering • Engineering Computing • Mathematics • Mechanics • Physics.

Second to Fifth Year

Areas of study for Civil Engineering include: Theory, Design & Analysis of Structures • Hydraulic Engineering • Treatment Processes for Water & Wastewater • Soil Mechanics & Geotechnical Engineering • Construction Materials & Practice • Transportation Engineering

A student's week involves attending lectures, tutorials, participating in laboratory classes and undertaking project and design exercises, both individually and in teams.

Coursework is continually assessed but modules also include end-of-semester written examinations.

Career & Graduate Study Opportunities

Graduates can find employment in:

- Environmental industries
- Transportation engineering
- Water resource and hydraulic engineering
- Management and project management
- Financial services
- Research

Graduates can apply for taught and research Master's degrees in UCD, including Civil, Structural and Environmental Engineering and Engineering with Business. Graduates can also apply for positions in PhD research programmes.

International Study Opportunities

Opportunities to date have included:

- University of Melbourne, Australia
- University of California, Berkeley, USA
- University of Auckland, New Zealand
- University of Connecticut, Storrs, USA.

Professional Work Experience

Professional Work Experience (PWE) is incorporated in the ME programme. Eight-month internships (the majority of which are paid) have included the following employers: AECOM, Arup, ESB, Malone O'Regan, O'Connor Sutton Cronin, Roughan & O'Donovan, and RPS Group.



www.ucd.ie/international/study-at-ucd-global



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