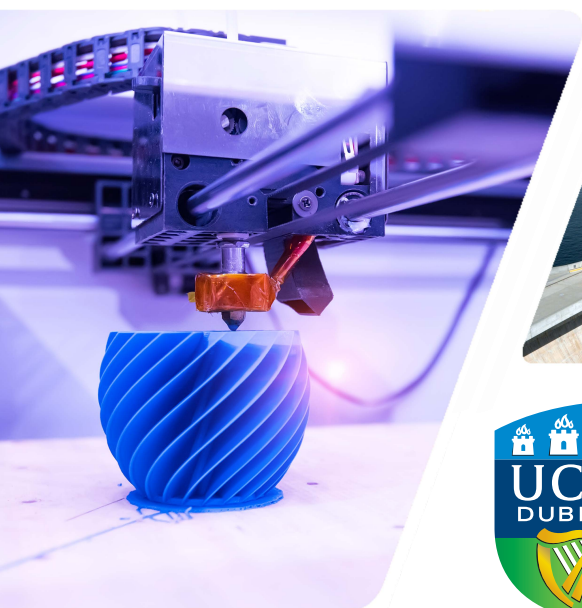# UCD ENGINEERING
ENGINEERING YOUR FUTURE
DN150 - ENTRY 2021

ENGINEERING OPEN EVENING

Date to be confirmed

Register your interest at www.myUCD.ie

University College Dublin
Ireland's Global University

UCD ENGINEERING (DN150)

BSc (Engineering Science) (NFQ Level 8) or BE (Hons) (NFQ Level 8) or Integrated Master of Engineering (NFQ Level 9)

WHAT IS UCD ENGINEERING?

UCD DN150 Engineering is the entry point to all of the Engineering programmes at UCD. We have the widest range of degree choices in the country and, after completing the common first year, you can choose your second year pathway from one of the following:

- Biomedical Engineering
- Chemical & Bioprocess Engineering
- Civil Engineering
- Electrical or Electronic Engineering
- Mechanical Engineering
- Structural Engineering with Architecture

Your chosen area of specialisation in second year will also offer routes to further branches of engineering at Master's level in year 4 and 5.

WHAT WILL I STUDY IN FIRST YEAR?

Your first year in UCD will see you immersed in a completely new life from both an educational and a social perspective. Educationally, the first year is a common year which allows you gain an understanding of the many engineering disciplines available before you commence your specialisation in second year.

Your first year will be spent intensively learning and discovering how to solve problems through Physics, Chemistry, Mathematics and Computing, as well as gaining exposure to engineering subjects such as Mechanics, Energy Engineering, Creativity in Design, and Electronic and Electrical Engineering.

UCD Engineering students also have the option to take elective modules throughout UCD on the Horizons programme.

WHAT MAKES A GOOD UCD ENGINEER?

UCD engineers have inquisitive minds and love to solve problems – and it is their creativity that sustains them when times get tough. Sometimes the tried and trusted solutions won't work and you'll have to come up with a new way of solving a problem, be it a health issue, a design issue, an energy issue, or a business issue. You will be the person that people will look to for answers and a UCD engineer will try to find a creative way of arriving at a solution that meets the needs of all parties.

Minimum CAO Points Required
2019: 511
2020: 521

Length of Course
3 Years (BSc)
4 Years (BE) (Hons)
5 Years (Integrated ME)

Places
295

Entry Requirements
- English
- Irish
- Mathematics (Min H4 in LC or equivalent)
- One laboratory science subject (min H6 in LC or equivalent) (Physics, Chemistry, Biology and Agricultural Science are accepted)
- Two other recognised subjects

A-Level/GCSE
See www.ucd.ie/myucd/alevel

Level 5/6 FETAC Entry Routes
See www.ucd.ie/FET

Level 6/7 Progression Entry Routes
See www.ucd.ie/transfer

Mature Entry Route
See www.ucd.ie/maturestudents

CAN I DO AN INTERNSHIP AS PART OF THE DEGREE?

The ME degrees in Engineering at UCD all incorporate a Professional Work Experience (PWE) internship module, designed to integrate students' academic and career interests with practical work experience for a period of 6-8 months. The College of Engineering & Architecture has two dedicated Internship Managers, who help prepare the students for their internship in conjunction with UCD Careers Network's Career & Skills Consultants. ME students completed internships with 100 different employers in the past academic year. Among those employers are: AbbVie, Accenture, AECOM, Arup, BD Medical, Boston Scientific, Energia, ESB, EY, Glanbia, Intel, Jacobs, Mainstream Renewable Power, Medtronic, Meinhardt (London), Mercury, Microsoft, Pfizer, PM Group, RPS, Stryker, Thornton Tomasetti (New York) and Lawrence Berkeley National Laboratory (California).

WHAT ARE THE CAREER OPTIONS FOR ENGINEERING GRADUATES?

From running a company to designing an industrial plant, from working in a multinational like Google to visiting Africa to work on irrigation systems, the opportunities that will be available to you as a UCD engineering graduate are as wide as they are varied. Whether your career path is to make a million by the time you are 25 or help save the world, you won't go too far wrong with engineering! It is not only a profession, it is a discipline, which will equip you with a mindset and skill set that will make you an asset on every career path you decide to take, and to any company that employs you.

WHAT ARE THE GRADUATE STUDY OPTIONS FOR AN ENGINEERING GRADUATE?

The options for UCD engineering graduates are numerous. In UCD there are taught Master's programmes including:

- Biomedical Engineering
- Biosystems & Food Engineering
- Chemical & Bioprocess Engineering
- Civil Engineering (dual degree with Columbia University)
- Civil, Structural & Environmental Engineering
- Electrical Power Engineering
- Electronic & Computer Engineering
- Energy Systems Engineering
- Engineering with Business
- Materials Science & Engineering
- Mechanical Engineering
- Optical Engineering
- Structural Engineering with Architecture

There are also research programmes available to students at both Master's and PhD level. The graduate opportunities in UCD are fantastic!

WILL STUDYING ENGINEERING AT UCD NARROW MY CAREER OPTIONS IN THE FUTURE?

Absolutely not. Your engineering qualification from UCD will offer you great flexibility. The skills and knowledge you will gain in UCD are highly transferable and offer you a wide range of career options within the engineering profession and outside it, for example in business, finance or consulting.

Aileen McCabe
Electronic Engineering Graduate

"When I was in school, I was attracted to engineering because I loved maths and physics and wanted to apply these in real world applications. After getting the opportunity to try out all the disciplines of engineering in the first year at UCD, I was surprised that I loved electronic engineering the most. I had no experience in coding or circuits before college but that does not matter as you can learn it all as you go. I would highly recommend anyone thinking of engineering to choose UCD. It offers students a very high standard of education and really stretches the students to achieve their potential. Having completed the undergraduate degree, there was no shortage of jobs to choose. I chose to join Qualcomm as a Hardware Engineer. Here, I help to design cutting-edge chips that are in everything from 5G phones to cars and I really love my job."

Conor Flannery
Structural Engineering with Archtecture Student

"I always had a keen interest in Maths, problem solving and creative design when I was in school. Structural Engineering with Architecture at UCD has definitely allowed me to explore and further develop these skills. The course is centred around Structural Engineering with elements of Architecture intertwined. Modules require problem solving with mathematical skills and involve design challenges, model making and creative thinking. The work placement in fourth year is a brilliant chance to gain valuable skills and experiences in a real business and commercial environment. I had the opportunity to do mine in Edinburgh as a Bridges and Structures Engineer, where I got to apply my technical knowledge to real life projects while working with a great team of engineers."

Year/Stage 1
Explore your options

Core Modules: Chemistry, Mathematics, Physics, Creativity in Design, Electrical/Electronic, Computing, and Mechanics

Option Modules: Chemical Computer Science for Engin in Society, The Engineering Biosystems Engineering Des & Environmental Engineerin and Robotics Design Project

Years/Stages 2 & 3
Choose your pathway

Choose one of the followin Chemical & Bioprocess; Che Electrical/Electronic; Mecha Architecture.
Optional Study Abroad or

Years/Stages 4 & 5
Focus on your area(s) of specialisation

Entry to Master's degree programmes is subject to entry requirements.

BE (4 years) Bachelor of Eng
Specialise in one of the foll & Bioprocess, Chemical with Electronic, or Mechanical

ME (5 years) Master of Engi
Specialise in one of the foll Food; Biomedical; Chemical Civil, Structural & Environm Electronic & Computer; Ene Business; Materials Science Engineering or Structural En
Professional Work Experier

WHY ENGINEERING AT UCD?

UCD is Ranked Among the Top 1% of Universities Worldwide

World Class Engineering Education

Widest Range of Engineering Degree Options

6-8 Month Internships on ME Programmes

Links Majo Employers

Engineering Modules (Horizons)

by Engineers Ireland IOM3

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