Engineering

BSc (Engineering Science) (NFQ Level 8)
leading to ME (NFQ Level 9)
or BE (Hons) (NFQ Level 8)

"If you have an enquiring mind, a desire to innovate and develop solutions to problems that have real social, societal and economic impact, you will find an engineering education both stimulating and rewarding. At UCD, we offer the widest possible choice of engineering disciplines and are committed to the on-going development of both discipline specific and interdisciplinary teaching and research. Whether your interests lie in agri-food, business, communications, energy, healthcare, materials, pharmaceuticals, physical infrastructure, transport or water, there is an option within UCD Engineering that will suit you.

With international leaders in the fields of engineering, the programmes will provide you with core knowledge in the subject, an expectation of attaining excellence and the development of your capacity for independent and creative thinking, problem solving and leadership in your chosen speciality."

Assoc Professor Aoife Ahern Dean of Engineering

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 33

Subject Requirements
Maths: 5 at Higher Level
Lab Science: 4 at higher Level / 7 at Standard Level

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

Subject Requirements
Maths: A Level Grade C
Lab Science: A Level Grade D / GCSE Grade A

Other Examinations
See www.ucd.ie/international

International Foundation Year
Yes. See www.ucdisc.com

Internship Opportunity
Yes

ENGINEERS IRELAND
ACCREDITED PROGRAMME

Studying Engineering at UCD

At UCD Engineering, we provide a rigorous education in the fundamental engineering subjects and help you to develop problem-solving and design skills, based on maths and physics. As a UCD Engineering student, you will enrol in a common first year, which allows you to gain an understanding of the many different engineering disciplines available, before being offered an unrestricted choice of specialisation, subject to health and safety based capacity constraints. We have the widest range of degree choices in the country and, after completing this 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 a Master's level. The range of study and career opportunities that can be accessed through our Bachelor's and Master's degree options is illustrated on the 'Studying UCD Engineering' diagram. You can choose a Bachelor of Engineering Science, BSc [3 years], a Bachelor of Engineering, BE [4 years] or a Master of Engineering, ME [5 years].

Since 2013, the educational standard for the professional title of Chartered Engineer [Engineers Ireland] has been an accredited Master's degree programme in engineering or equivalent. In the School of Chemical & Bioprocess Engineering, the 4-year BE degrees are designed to meet the educational standard for the professional title of Chartered Engineer, through the Institution of Chemical Engineers [IChemE].

Career & Graduate Study Opportunities

A world of opportunity awaits you as a UCD Engineering graduate and, as our programmes are professionally accredited, they are fully recognised internationally.

You'll be able to establish a career in many sectors, including:

Business • Design • Education • Energy/ clean technology • Environment • Food • Healthcare • Information and communications technology • Infrastructure • Research.

You'll be equipped with a mindset and skills that will make you an asset to any employer. The Engineering education offered by UCD is recognised by the world's top companies. In addition to our wide range of BE degrees, UCD has numerous graduate programmes including taught Master's degrees with specialisations in:

- Biomedical Engineering
- Biosystems & Food Engineering
- Chemical & Bioprocess Engineering
- Civil, Structural & Environmental Engineering
- Electrical Power Engineering
- Electronic & Computer Engineering
- Engineering with Business
- Energy Systems Engineering
- 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.

KEY FACT
All of the ME Programmes have an embedded internship element.

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

UCD Engineering & Architecture Programme Office
Engineering and Materials Science Centre, Belfield, Dublin 4

internationaladmissions@ucd.ie
+353 1 **716 1868**
facebook.com/**UCDEngArch**

Studying UCD Engineering

Year 1 — Explore your options

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

These core modules are supplemented by a range of option modules that will enable you to develop within your chosen specialisation and areas of interest.

Years 2 & 3 — Choose your pathway

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

Optional Study Abroad

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

	BE (4 years) Bachelor of Engineering	ME (5 years) Master of Engineering	
Graduate with a Bachelor of Engineering	Biomedical	*Biosystems & Food	Engineering with Business
	Chemical & Bioprocess**	Biomedical	Materials Science & Engineering
	Chemical with Biochemical Minor**	Chemical & Bioprocess	Mechanical
	Civil	Civil, Structural & Environmental	Optical Engineering
	Electrical	Electrical Power	Structural Engineering with Architecture
	Electronic	Electronic & Computer	**Professional Work Experience**
	Mechanical	Energy Systems	

Graduate with a Master of Engineering

Specialise through UCD graduate study

Taught & Research Master's

- Biopharmaceutical Engineering
- Bioeconomy with Business
- Chemical Engineering
- Electronic & Computer Engineering
- Engineering Management
- Environmental Technology
- Food Engineering
- Materials Science & Engineering
- Structural Engineering
- Sustainable Energy & Green Technologies
- Water, Waste & Environmental Engineering

Doctor of Philosophy (PhD) Engineering

Research & Academia

Shape your career with UCD Engineering

Professional Engineer in your chosen discipline with careers in:

- Business & Media
- Construction
- Design
- Education
- Energy
- Environment
- Finance
- Food
- Healthcare
- Information & Communications Technology (ICT)
- Management
- Manufacturing
- Pharmaceuticals
- Research & Academia

Continue to develop your professional career with UCD...

*The ME Biosystems and Food Engineering is accessible from all Engineering Pathways.
**These 4-year BE degrees are designed to meet the educational standard for the professional title of Chartered Engineer, through the Institution of Chemical Engineers [IChemE].