Engineering Technology

BAgrSc (Hons) (NFQ Level 8)

Engineering Technology **UAS1 ENT**

Length of Course	4 Years

Guideline Entry Requirements

IB - International Baccalaureate Diploma	IB Total 28 Subject Requirements: Maths: 4 at Standard Level Lab Science: 4 at Standard Level
Cambridge A Level (+ GCSE O Level)	ABB Subject Requirements: Maths: GCSE Grade C Lab Science: GCSE Grade C
Other Examinations	For country specific information see page 157
UCD International Foundation Year	Yes, see www.dublinisc.com/university-college-dublin

Why is this course for me?

Engineering Technology covers broad areas of bioenergy, mechanisation, environmental technology and processing technology for agri-food and related industries. This degree will give you a global perspective and understanding of:

- How engineering science helps to develop these technologies
- How to produce, harvest, process, preserve and distribute biological products (plant and animal) in a sustainable and environmentally friendly way

What will I study?

The degree is based on a core of scientific modules including Principles of Engineering, Computer & Manufacturing Technology, Crop/Animal Husbandry and Food Science. Progressive specialisation introduces an exciting range of subjects. Modules include:

First Year

Biosystems Engineering Design Challenge • Agricultural Economics • Biology • Chemistry • Physics • Mathematics

Second Year

Management • Food Physics • Engineering & Surveying • Biosystems Engineering Research Trends

Third Year

Financial Planning & Control • Biosystems Engineering Design Project • Power & Machinery Systems I • Waste Management • Biofuels & Bioenergy Resources

Fourth Year

Food Refrigeration Systems • Food Quality & Safety Assurance Project • Power & Machinery Systems II • Biosystems Engineering Major Project

Students spend an average of 40 hours a week attending lectures, tutorials and laboratory-based practicals, and undertake independent study.
A combination of continuous assessment and end-of-semester written examinations is used. Certain modules also require project work.

Career & Graduate Study Opportunities

Graduates will find rewarding and challenging employment in agri-food industries, including:

Green energy • Environmental protection • Food processing • Consulting • Equipment manufacturing

Typical roles include technical engineers and managers in:

- Production
- Energy utilisation
- Food processing
- Environmental protection
- Information technology
- Manufacturing
- Process and product design

There are also excellent graduate study opportunities.

Professional Work Experience (PWE) & International Study Opportunities

There are opportunities to study abroad for one semester in third year, and to work abroad (Australia, Europe, New Zealand and the USA) for PWE. Possibilities include:

- University of California, USA
- University of Melbourne, Australia
- Michigan State University, USA
- Kansas State University, USA
- Purdue University, USA

Hong-Ju He
STUDENT

I chose to study at UCD because I had heard about their well-renowned faculty, in particular Professor Da Wen Sun, who is an international expert in Food research and technology at UCD – he is highly regarded around the world and particularly in China.

UCD is a fantastic university and I love studying and living on the UCD campus here in Dublin. The official language in Ireland is English and the Irish are very friendly, which is important when studying abroad. UCD is in the top 1% of Universities in the world, so it has an excellent academic reputation.

When I graduate, I would like to develop a career as a researcher/lecturer in Food Science or to start up my own Food business as it is an exciting time to be studying food science given the increased demand for food.

Find out more www.ucd.ie/**international**

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UCD Agriculture & Food Science Programme Office
Agriculture & Food Science Centre
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Other courses of interest

Agricultural Science	→138
Science	→96
Animal & Crop Production	→140
Agri-Environmental Sciences	→149