

BE (HONS) (PROCESS AND CHEMICAL) ENGINEERING

Overview

Status: Active

National Framework Of Qualifications (NFQ) Level: 8

NFQ Award Class: Major Award

Duration Full Time: 4 Academic Year(s)

Total Credits: 240

Delivery Method: In-Person

Connected Curriculum:

- Employability
- Inter-and Transdisciplinary
- Research Based Teaching
- Sustainability

Sustainable Development Goals (SDGs):

- Good Health and Well-being
- Quality Education
- Gender Equality
- Clean Water and Sanitation
- Affordable and Clean Energy
- Industry, Innovation, and Infrastructure
- Reduced Inequality
- Sustainable Cities and Communities
- Responsible Consumption and Production
- Climate Action
- Partnerships to Achieve SDGs

Graduate Attributes:

- Creator, evaluator and communicator of knowledge
- Digitally Fluent
- Effective global citizen
- Independent and creative thinker
- Socially Responsible

Work-Integrated Learning (Including Placement):

No

Students enter First Year Engineering (<https://ucc-ie-public.courseleaf.com/programmes/beg/>) and complete a common programme of study. In Second Year students enter separate programmes leading to degrees in Civil, Structural and Environmental Engineering, Electrical and Electronic Engineering, Energy Engineering and Process and Chemical Engineering.

Note: At the end of Third Year students may register for the BE (Hons)/ME Pathway (Process and Chemical) (<https://ucc-ie-public.courseleaf.com/programmes/pembp/>). Students who choose not to are not eligible to register for the BE (Hons ME Pathway (Process and

Chemical) will continue to Fourth Year of the BE (Hons) (Process and Chemical).

Second Year - Process and Chemical Engineering

No student may register for Second Year until he/she has passed the First University Examination in Engineering. In order to be admitted to the Second University Examination in Process and Chemical Engineering, a student must have satisfactorily attended, subsequent to passing the First University Examination in Engineering, prescribed modules to the value of **60** credits.

Third Year - Process and Chemical Engineering

No student may register for the Third Year programme in Process and Chemical Engineering until he/she has passed the Second University Examination in Process and Chemical Engineering. In order to be admitted to the Third University Examination in Process and Chemical Engineering, a student must have satisfactorily attended, subsequent to passing the Second University Examination in Engineering, prescribed modules to the value of **60** credits.

Year Abroad (Third Year)

On the recommendation of the Head of the School of Engineering and Architecture and subject to the approval of the College of Science, Engineering and Food Science, a student may be permitted to undertake the Third Year of his/her BE studies at an approved institution abroad following a study programme equivalent to **60** credits. Where a language other than English is the language of instruction at the approved host institution, up to **20** credits of the programme may be dedicated to formal study of the language of instruction, subject to the approval of the Head of School of Engineering and Architecture. The detailed programme of study shall be proposed by the student in consultation with the approved host institution and the Director of the BE (Process and Chemical Engineering) Programme and shall require the approval of the Head of School of Engineering and Architecture.

The student will be examined by the approved host institution. A student who achieves a pass standard, as defined by the approved host institution, will be deemed to have passed the Third University Examination in Process and Chemical Engineering. A student who fails to achieve a pass standard, as defined by the approved host institution, will be deemed to have failed the Third University Examination in Process and Chemical Engineering and will be eligible to undertake the Third Year programme at UCC in a Repeat Year. The detailed transcript of results will be communicated by the host institution to the Autumn Examination Board, UCC, and will form part of the student's formal academic record.

Registered Second Year Process and Chemical Engineering students who have achieved a 2H1 in first year may apply to undertake the Third Year of their BE studies abroad. An application to study abroad must be made to the Head of the School of Engineering and Architecture by **31st January**. Permission to undertake the Third Year of study abroad will be conditional on the student achieving at least a 2H1 in the Second University Examination in Electrical and Electronic Engineering at the Summer Examination.

The number of students who may be permitted to undertake the Third Year of study abroad will be limited by the number of places available in any given year at approved host institutions.

Work Placement Module in Fourth Year (BE Hons)

A student who wishes to take the elective module, PE4021, in Fourth Year is required to have made final arrangements, as prescribed by the Module

Co-ordinator, for the work placement by **31 May** of their Third year. The work placement is undertaken during the period, June to September, after the Third Year Summer University Examination. Further information is available from the Module Co-ordinator.

Entry to the ME in Process and Chemical Engineering

Entry to the ME in Process and Chemical Engineering (<https://ucc-ie-public.courseleaf.com/programmes/mepe/>) is determined based on student performance during Third Year. Students who pass the Third University Examination in Process and Chemical Engineering, achieving at least a 2H2 will be eligible to register for Fourth Year of the BE (Hons)/ME Pathway (Process and Chemical) (<https://ucc-ie-public.courseleaf.com/programmes/pembp/>). In the case of students that have completed one full semester or a full year of studies abroad during Third Year, performance during the Second Year is taken into consideration, with a minimum of 2H1 in the Second Year Examination required for eligibility, in addition to passing the Third Year examination. Students who are eligible to register for the BE (Hons) / ME Pathway (Process and Chemical), but choose not to, will continue to Fourth Year of the BE (Hons) (Process and Chemical). Students passing the Third University Examination in Process and Chemical Engineering who are ineligible to register for the BE (Hons)/ME Pathway (Process and Chemical) will continue to Fourth Year of the BE (Hons) (Process and Chemical).

Fourth Year - BE (Hons)/ME Pathway Process and Chemical Engineering

In Fourth Year students complete either the **BE (Hons)** or the **ME (Process) Pathway**.

No student may register for Fourth Year until he/she has passed the Third University Examination in Process and Chemical Engineering. In order to be admitted to the BE (Hons) / ME Pathway (Process and Chemical) Degree Examination, a student must have satisfactorily pursued, subsequent to passing the Third University Examination in Process and Chemical Engineering, modules to the value of **60** credits.

Work Placement Module in Fourth Year (BE Hons)

A student who wishes to take the elective module, PE4021, in Fourth Year is required to have made final arrangements, as prescribed by the Module Co-ordinator, for the work placement by **31 May** of their Third year. The work placement is undertaken during the period, June to September, after the Third Year University Examination. A student who makes arrangements for taking the work placement module and fails to pass the Third University Summer Examination in Process and Chemical Engineering will not be permitted to take the module for examination in Fourth Year. The module is described in the *Book of Modules*. Further information is available from the Module Co-ordinator.

Fifth Year - ME Process and Chemical Engineering

No student may register for Fifth Year of the ME in Process and Chemical Engineering (<https://ucc-ie-public.courseleaf.com/programmes/mepe/>) until he/she has passed the Fourth ME Pathway University Examination in Process and Chemical Engineering. In order to be admitted to the Final ME (Examination in Process and Chemical) Degree Examination a student must have satisfactorily attended, subsequent to passing the Fourth ME Pathway University Examination in Process and Chemical Engineering, prescribed modules to the value of **60** credits.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p.).