

# BE (HONS) (ENERGY) 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
- Global Reach
- Sustainability

### Sustainable Development Goals (SDGs):

- Affordable and Clean Energy
- Climate Action

### Graduate Attributes:

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

### Work-Integrated Learning (Including Placement):

Yes

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 (Energy) Engineering (<https://ucc-ie-public.courseleaf.com/programmes/nembp/>). Students who choose not/are not eligible to register for the BE (Hons) / ME Pathway (Energy) will continue to Fourth Year of the BE (Hons) (Energy).

## Second Year - Energy 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 Energy 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 - Energy Engineering

No student may register for the Third Year programme in Energy Engineering until he/she has passed the Second University Examination in Energy Engineering. In order to be admitted to the Third University Examination in Energy Engineering, a student must have satisfactorily attended, subsequent to passing the Second University Examination in Energy 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, 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. The detailed programme of study shall be proposed by the student in consultation with the approved host institution and the Director of the BE (Energy) programme and shall require the approval of the Director of the BE (Energy) 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 Energy 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 Energy 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 Energy 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 Energy 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, NE4009, 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. The module is described in the *Book of Modules*. Further information is available from the Module Co-ordinator.

## Entry to the ME in Energy Engineering

Entry to the ME in Energy Engineering (<https://ucc-ie-public.courseleaf.com/programmes/menrg/>) is determined based on student performance during Third Year. Students who pass the Third University Examination in Energy Engineering, achieving at least a 2H2 will be eligible to register for Fourth Year of the BE (Hons) / ME Pathway (Energy) Engineering (<https://ucc-ie-public.courseleaf.com/programmes/>)

nembp/). 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 (Energy), but choose not to, will continue to Fourth Year of the BE (Hons) (Energy). Students passing the Third University Examination in Energy Engineering who are ineligible to register for the BE (Hons) / ME Pathway (Energy) will continue to Fourth Year of the BE (Hons) (Energy).

## Fourth Year - Energy Engineering

In Fourth Year students complete either the **BE (Hons) Energy** or the **ME (Energy) Pathway** (<https://ucc-ie-public.courseleaf.com/programmes/nembp/>).

No student may register for Fourth Year until he/she has passed the Third University Examination in Energy Engineering. In order to be admitted to the BE (Hons) / ME Pathway (Energy) Degree Examination, a student must have satisfactorily pursued, subsequent to passing the Third University Examination in Energy 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, NE4009, 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 Energy 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.

## Change of Registration to Fourth Year of the BE (Hons) (Energy)

A student may elect to change registration to Fourth Year of the BE (Hons) provided formal notification is received by the Student Records and Examinations Office (sreo@ucc.ie) before the end of Week 8 of Semester 1 of Fourth Year.

## Programme Requirements

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