

# ME PATHWAY (CIVIL, STRUCTURAL AND ENVIRONMENTAL) ENGINEERING

## Overview

Students entering Third Year may at the end of Third Year register for the BE (Hons) / ME Pathway (Civil, Structural and Environmental) (p. 1). Students who choose not/are not eligible to register for the BE (Hons) / ME Pathway (Civil, Structural and Environmental) will continue to Fourth Year of the BE (Hons) (Civil, Structural and Environmental) (<https://ucc-ie-public.courseleaf.com/programmes/becse/>).

## Entry to the ME in Civil, Structural and Environmental Engineering

Entry to the ME in Civil, Structural and Environmental Engineering (<https://ucc-ie-public.courseleaf.com/programmes/mecse/>) is determined based on student performance during Third Year. Students who pass the Third University Examination in Civil, Structural and Environmental Engineering, achieving at least a 2H2 will be eligible to register for Fourth Year of the BE (Hons) / ME Pathway (Civil, Structural and Environmental) (p. 1). 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 (Civil, Structural and Environmental), but choose not to, will continue to Fourth Year of the BE (Hons) (Civil, Structural and Environmental Engineering). Students passing the Third University Examination in Civil, Structural and Environmental Engineering who are ineligible to register for the BE (Hons) / ME Pathway (Civil, Structural and Environmental) will continue to Fourth Year of the BE (Hons) (Civil, Structural and Environmental Engineering).

## Change of Registration to Fourth Year of the BE (Hons) (Civil, Structural and Environmental)

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](mailto:sreo@ucc.ie)) before the end of Week 8 of Semester 1 of Fourth Year.

**Note:** Elective modules are offered subject to timetabling and other constraints and should be chosen in consultation with the programme director.

## Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

## Programme Requirements

Code	Title	Credits
<b>Year 1 - Engineering</b>		
Students take <b>60</b> credits as follows:		
<i>Core Modules</i>		
CE1003	Introduction to Structural and Civil Engineering	5

CE1005	Engineering Computation and Problem Solving	5
CM1001	Chemistry for Engineers	5
EE1007	Introduction to Electrical and Electronic Engineering	5
MA1011	Mathematical Methods I	5
MA1012	Mathematical Methods II	5
ME1002	Engineering Thermodynamics	5
NE1001	Introduction to Energy Engineering	5
PE1003	Introduction to Process and Chemical Engineering	5
PY1006	Physics for Engineers II	5
PY1012	Physics for Engineers I	10

## Year 2 - Civil, Structural and Environmental Engineering

Students take **60** credits as follows:

### Core Modules

EG2001	Engineering Mechanics with Transform Methods	5
EG2002	Numerical Methods and Programming	5
CE2001	Solid and Structural Mechanics I	5
CE2002	Solid and Structural Mechanics II	5
CE2003	Fluids I	5
CE2004	Fluids II	5
CE2005	Surveying - Theory and Practice	5
CE2007	Design Studio I	5
CE2009	BIM 1: Modelling and Visualisation	5
MA2013	Mathematics for Engineering	5
PE2003	Heat Transfer	5
ST1051	Introduction to Probability and Statistics	5

## Year 3 - Civil, Structural and Environmental Engineering

Students take **60** credits as follows:

### Core Modules

CE3002	Solid and Structural Mechanics III	5
CE3003	Design Studio II (Steel and Timber)	5
CE3004	Mechanics of Soils I	5
CE3005	Mechanics of Soils II	5
CE3006	Construction Project Management	5
CE3007	Hydraulics I	5
CE3008	Design Studio III (Reinforced Concrete and Masonry)	5
GL3006	Geology for Engineers	5
CE3009	Environmental Engineering- Wet	5
CE3010	Energy in Buildings	5
CE3012	Materials and Sustainability	5
NE3003	Sustainable Energy	5

## Year 4 - ME Pathway Civil, Structural and Environmental Engineering

Students take **60** credits as follows – all listed core modules (**30** credits) in Part A and a Placement module (**30** credits) in Part B:

### Part A

### Core Modules

CE4004	Design Studio IV (Reinforced Concrete)	5
CE4006	Structural Analysis	5
CE4007	Geotechnical Engineering	5
CE4010	Water and Wastewater Treatment	5
CE4012	Traffic and Highways	5
CE4020	Environmental Hydrodynamics	5

*Part B*

*Core Modules*

CE6008	ME Work Placement	30
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**Year 5 - ME (Civil, Structural and Environmental Engineering)**

ME (Civil, Structural and Environmental) Engineering (<https://ucc-ie-public.courseleaf.com/programmes/mecse/>)

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<b>Total Credits</b>	<b>240</b>
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**Examinations**

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.