

ME PATHWAY (CIVIL, STRUCTURAL AND ENVIRONMENTAL) ENGINEERING

Programme Requirements

Code	Title	Credits
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Year 1 - Engineering

Students take **60** credits as follows:

Core Modules

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 (Structural Concrete)	5
GL3006	Geology for Engineers	5
CE3009	Environmental Engineering	5

CE3010	Energy in Buildings	5
CE3012	Materials and Sustainability	5
CE4012	Traffic and Highways	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
CE4026	Environmental Design Studio	10
CE4015	Environmental Hydraulics	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/>)

Total Credits **240**

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*.