

# The Degree of Master of Civil Engineering (MCivilEng – 120 points)

These regulations must be read in conjunction with the General Regulations for the University.

1.Version

(a)

ENEQ623	Finite Element Analysis	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director
ENEQ624	Nonlinear Structural Analysis and Dynamics	15	X	Campus	P: Subject to approval of the Head of Department or Programme Co-ordinator.
ENEQ641	Nonlinear Concrete Mechanics and Modelling Techniques	15	NO		P: Subject to approval of the Head of Department or Programme Director
ENEQ650	Advanced Steel and Composite Structures	15	X	Campus	P: ENCI436 or approval of Head of Department or Programme Director R: ENCI611
ENEQ676	Advanced Reinforced Concrete	15	S2	Campus	P: An introductory course on design of RC structures such as ENCI426, ENCI436 or similar.
ENEQ682	Ground Improvement Techniques	15	X	Campus	P: ENCN253 and ENCN353 or equivalent

## Geotechnical Engineering

Course Code	Course Title	Pts	2025	Location	P/C/R/RP/EQ
ENCI675	Independent Course of Study	15	S1	Campus	P: Subject to approval of the Head of Department.
			W	Campus	
			S2	Campus	
ENCI682	Special Topic Civil Engineering - Project	10	A	Campus	P: Subject to approval of the Head of Department
ENCN452	Advanced Geotechnical Engineering	15	S1	Campus	P: EMTH210, ENCI199, ENCN201, ENCN205, ENCN213, ENCN221, ENCN231, ENCN242, ENCN253, ENCN281, ENCN353 R: ENCI452
ENCN454	Introduction to Geotechnical Earthquake Engineering	15	S1	Campus	P: EMTH210, ENCI199, ENCN201, ENCN205, ENCN213, ENCN221, ENCN231, ENCN242, ENCN253, ENCN281, ENCN353 R: ENCI620
ENEQ610	Seismic Hazard and Risk Analysis	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director. R: ENCI617
ENEQ620	Advanced Geotechnical Earthquake Engineering	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director. R: ENCI620
ENEQ623	Finite Element Analysis	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director
ENEQ682	Ground Improvement Techniques	15	X	Campus	P: ENCN253 and ENCN353 or equivalent
ENGE412	Rock Mechanics and Rock Engineering	15	NO		P: (1) ENCN 353 or (2) MATH 101 or MATH 102 or MATH 103 and (3) approval from the Head of Department of Geological Sciences R: ENGE 485
GEOL479	Active Tectonics and Geomorphology	15	S2	Campus	P: Subject to approval by the Course Coordinator; RP: Meet requirements for entry to DRRE, ENGE, or MCivilEng 400-level courses.



## Transportation Engineering

The courses listed below or any 600-level courses offered under the Transport Engineering course list (ENTR)



Qualification Regulations

## Schedule E: Elective Courses for the Degree of Master of Civil Engineering: General Courses

Course Code	Course Title	Pts	2025	Location	P/C/R/PE/Q
ENAE601	Whole Building Behaviour and Performance	15	X1	Campus	P: Subject to approval of the Head of Department
ENAE602	Collaborative Building Design Studio	15	X	Campus	P: Subject to approval of the Head of Department.
ENAE605	Sustainable Building Design Practice	15	X	Campus	P: Subject to approval of the Head of Department
ENAE606	Building Modelling and Integrated Design	15	X	Campus	P: Subject to approval of the Head of Department