The Degree of Master of Renewable Energy Engineering (MREE – 120 points)

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

1. Version

(a) These Regulations came into force on 1 July 2026.
(b) This degree was first offered in 2026.

2. Variations

In exceptional circumstances the Amo Matua, Pūhanga | Executive Dean of Engineering or Delegate may approve a personal programme of study which does not conform to these regulations.

3. The structure of the qualification

To qualify for the Master of Renewable Energy Engineering a student must be credited with a minimum of 120 points towards the qualification including:

(a) a minimum of 75 points from Schedule E Group 1 to these regulations; and
(b) the remaining points from Schedule E or any approved 400-level or higher courses in the Faculty of Engineering or the University, if it supports the programme of study as approved by the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate.

4. Admission to the qualification

To be admitted a student must have:

(a) either:
    i. qualified for an Aotearoa New Zealand Bachelor of Engineering with Honours, with a B (5.0) Grade Point Average or above in the final two years; or
    ii. qualified for an Aotearoa New Zealand Bachelor of Science with Honours in a related subject, with a B (5.0) Grade Point Average or above in the final two years; or
    iii. qualified for an Aotearoa New Zealand Postgraduate Certificate in Engineering, with a B (5.0) Grade Point Average or above; or
    iv. qualified for Bachelor of Engineering or Science that is equivalent to NZQA level 7, with a B (5.0) Grade Point Average or above in the final two years, and with at least 5 years of work experience in a relevant field; or
    v. been admitted with Academic Equivalent Standing; and
(b) been approved as a student by the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate.

5. Subjects

There are no majors, minors, or endorsements for this qualification.

6. Time limits

This qualification adheres to the General Regulations for the University with a time limit of 48 months.

7. Transfers of credit, substitutions and cross-credits

This qualification adheres to the General Conditions for Credit and Transfer Regulations, with no additional stipulations.

8. Progression

This qualification adheres to the General Regulations for the University with the following stipulations:

(a) A student who fails up to 30 points for the qualification may, with the permission of the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate, repeat that course or courses, or substitute another course or courses of equal weight.
(b) A student who fails more than 30 points will be withdrawn from the qualification.

9. Honours, Distinction and Merit

This qualification adheres to the General Regulations for the University and may be awarded with distinction and merit.

10. Exit and Upgrade Pathways to other Qualifications

A student for the Master of Renewable Energy Engineering who has not met the requirements for the programme, but who has satisfied all requirements for a Postgraduate Certificate in Engineering may apply to the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate to withdraw from the programme and be awarded one of the certificates.

11. Transition Regulation

This degree replaces the earlier Master in Engineering Studies Endorsed in Renewable Energy from 2016.

Schedule E: Elective courses for the Degree of Master of Renewable Energy Engineering

Students must complete 75 points from the following courses.

Group 1

Course Code	Course Title	Pts	2026	Location	P/C/R/RP/EQ
ENAE607	Building Energy Systems Design Practice	15	NO		P: Subject to approval of the Head of Department.
ENCH683	Advanced Energy Processing Technologies and Systems	15	S1	Campus	P: Approval from the Head of Department required. R: ENCH483
ENCN623	Energy Systems Modelling and Analysis	15	S2	Campus	P: ENCN423 or ENCN627 or ENME405 or ENME605 or ENGR404 or subject to approval of the Head of Department.
ENCN627	Sustainable Energy Technologies	15	S1	Campus	P: Approval from the Head of Department required. R: ENME605, ENCN423, ENGR404, ENME405
ENEL667	Renewable Electricity System Design	15	S2	Campus	R: ENEL663, ENEL664
ENGR621	Energy Policy and Society	15	S1	Campus	P: Subject to the approval of the Head of Department.
ENGR682	Special Topic: Energy Project	15	A	Campus	P: Subject to the approval of the Head of Department.
ENGR683	Special Topic in Engineering - Project	30	A	Campus	P: Subject to the approval of the Dean of Engineering
ENME605	Advanced Energy Systems Engineering	15	S2	Campus	P: Subject to approval of the Head of Department. R: ENME405, ENGR404 RP: Bachelors degree in Engineering or equivalent
ENTR614	Planning and Design of Sustainable Transport	15	X	Campus	P: Subject to approval of the Programme Director

Group 2

The following additional courses, grouped by topic, are examples of electives that may be chosen to complement the programme.

Energy systems and Power-to-X

Course Code	Course Title	Pts	2026	Location	P/C/R/RP/EQ
CHEM436	Sustainable Chemistry: Catalysis, Energy and Green Materials	15	NO		P: CHEM335 or CHEM321 RP: CHEM335 or CHEM321
ENCN401	Engineering in Developing Communities	15	S2	Campus	P: EMTH210, ENCI199, ENCN201, ENCN213, ENCN221, ENCN231, ENCN242, ENCN253, ENCN281, ENCN205 R: ENNR451
ENEL480	Electrical Power Systems	15	S1	Campus	P: ENEL382
EPEC605	Sustainable Transition in Action	15	NO		P: BE(Hons) or Approval from Head of Department R: EPEC601, EPEC602, EPEC603, MCEN601, EMGT607 (Special topic offered 2022)

Sustainable buildings

Course Code	Course Title	Pts	2026	Location	P/C/R/RP/EQ
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
ENAE610	Building Sustainability Assessment	15	X	Campus	P: Subject to approval of the Head of Department

Data and analytics

Course Code	Course Title	Pts	2026	Location	P/C/R/RP/EQ
ENCI604	Practical Modelling and AI	15	S1	Campus	R: ENCN404
GISC405	Environmental and Climate Data Analytics	15	S2	Campus	P: GISC101 or GISC401 or equivalent.
PMGT605	Critical and Systems Thinking in the Age of AI	15	NO		P: Subject to approval of the Programme Director

Management

Course Code	Course Title	Pts	2026	Location	P/C/R/RP/EQ
EMGT604	Management in Technical Organisations	15	X4	UC Online	P: Subject to the approval of the Programme Director
EMGT606	Technology Development, Application and Transfer	15	X2	UC Online	P: Subject to the approval of the Programme Director
			X	Campus	
ENCH497	Process Management	15	S1	Campus	
ENCI601	Risk Management	15	S1	Campus	P: Subject to approval of the Director of Studies
ENCM620	Construction Procurement and Contract Administration	15	S1	Campus	P: Subject to approval of Programme Director
ENCM650	Cost Engineering	15	X	Campus	RP: BE (Hons) or equivalent