The Degree of Master of Engineering Studies (MEngSt – 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 January 2024.
(b) This degree was first offered in 2006.

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 MEngSt:

(a) a student must complete not less than 120 points
(b) To qualify for the MEngSt in a subject endorsement a student must complete;
    i. a minimum of 75 points at 600-level from the relevant endorsement; and
    ii. the remaining 45 points from 400-level or 600-level courses in COSC, ENBI, ENCH, ENCI, ENCM, ENEQ, ENEL, ENFE, ENGR, ENME, ENTR, FORE, HITD, or SENG or any approved 400-level or higher courses offered within the University.
(c) To qualify for the MEngSt (unendorsed) a student must complete;
    i. a minimum of 75 points at 600-level in ENBI, ENCH, ENCI, ENCM, ENEQ, ENEL, ENFE, ENGR, ENME, ENTR, or SENG; and
    ii. of the remaining 45 points from 400-level or 600-level in COSC, ENBI, ENCH, ENCI, ENCM, ENEQ, ENEL, ENFE, ENGR, ENME, ENTR, FORE, HITD, or SENG or any approved 400-level or higher courses offered within the University.

4. Admission to the qualification

To be admitted to the Master of Engineering Studies, a student must have

(a) either:
    i. qualified for the Degree of Bachelor of Engineering with First or Second Class Honours from an Aotearoa New Zealand University; or
    ii. qualified for the Postgraduate Certificate in Engineering from an Aotearoa New Zealand University with a GPA of 5 or more; or
    iii. qualified for the Degree of Bachelor of Science with First or Second Class Honours in appropriate subjects from an Aotearoa New Zealand University; or
    iv. in exceptional circumstances, qualified for another appropriate degree from an Aotearoa New Zealand University; or
    v. been admitted with Academic Equivalent Standing; and
(b) been approved as a student for the degree by the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate based on relevance and standard of previous study.

5. Subjects

The degree may be awarded with an endorsement in the following subjects:

(a) Fire Engineering*
(b) Mechanical Engineering
(c) Renewable Energy

** Not open to new enrolments*

6. Time limits

(a) A student must study full-time unless approval for part-time study is granted by the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate.
(b) The time limit for this qualification is 60 months.

7. Transfers of credit, substitutions and cross-credits

This qualification adheres to the Credit Recognition and Transfer Regulations, with no additional stipulations.

8. Progression

This qualification adheres to the General Regulations for the University, which permits two course failures to qualify for the degree, with no additional stipulations.

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) Transfer from MEngSt to ME/MEFE
   i. Subject to the approval of the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate, a student for the Master of Engineering Studies may transfer to a Master of Engineering or Master of Engineering in Fire Engineering provided the following conditions have been met:
      a. the student has completed a minimum of 45 points of the course requirements for the MEngSt; and
      b. the student has achieved an average GPA of 5.0 or more in the completed courses; and
      c. the courses completed by the student fulfil the coursework requirements of the relevant programme of study given in Schedule C of the ME Regulations, or Schedule to the Regulations of the MEFE; and
      d. suitable thesis supervision and research resources are available.

In such cases a student may be required to complete further course requirements depending on which programme of study they enrol in.

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

Schedule S: Subject Courses for the Degree of Master of Engineering Studies (Endorsed)

For full course information, go to www.canterbury.ac.nz/courses

Fire Engineering*

** Not open to new enrolments*

Required courses

(a) ENFE601 Structural Fire Engineering
(b) ENFE602 Fire Dynamics
(c) ENFE603 Fire Safety Systems
(d) ENFE604 Fire Design Case Study
(e) ENFE610 Advanced Fire Dynamics

Mechanical Engineering

Course Code	Course Title	Pts	2024	Location	P/C/R/RP/EQ
ENME602	Advanced Vibrations and Acoustics	15	NO		P: Subject to approval of the Head of Department. R: ENME402 RP: Bachelors degree in Engineering or equivalent
ENME603	Advanced Linear Systems Control and System Identification	15	S1	Campus	P: Subject to approval of the Head of Department. R: ENME403 RP: Bachelors degree in Engineering or equivalent
ENME604	Advanced Aerodynamics and Ground Vehicle Dynamics	15	S2	Campus	P: Subject to approval of the Head of Department. R: ENME404 RP: Bachelors degree in Engineering or equivalent
ENME605	Advanced Energy Systems Engineering	15	NO		P: Subject to approval of the Head of Department. R: ENME405, ENGR404 RP: Bachelors degree in Engineering or equivalent
ENME606	Advanced Engineering Product Design and Analysis	15	NO		P: Subject to approval of the Head of Department. R: ENME406 RP: Bachelors degree in Engineering or equivalent
ENME607	Advanced Materials Science and Engineering	15	S1	Campus	P: Subject to approval of the Head of Department. R: ENME407 RP: Bachelors degree in Engineering or equivalent
ENME609	Advanced Physiological Modelling	15	NO		P: Subject to approval of the Head of Department. R: ENME409 RP: Bachelors degree in Engineering or equivalent
ENME611	Advanced Mechanical System Design	15	NO		P: Subject to approval of the Head of Department. R: ENME411 RP: Bachelors degree in Engineering or equivalent
ENME617	Advanced Composite, Polymeric and Ceramic Materials	15	NO		P: Subject to approval of the Head of Department. R: ENME417 RP: Bachelors degree in Engineering or equivalent
ENME618	Advanced Engineering Management and Professional Practice for Mechanical Engineers	15	S2	Campus	P: Subject to approval of the Head of Department. R: ENME418 RP: Bachelors degree in Engineering or equivalent
ENME623	Advanced Instrumentation and Sensors	15	S1	Campus	P: Subject to approval of the Head of Department. R: ENME423 RP: Bachelors degree in Engineering or equivalent
ENME625	Special Topic	15	NO		P: Subject to approval of the Head of Department.

Notes:

1. *Not all courses will be offered in any one year. Students are advised to contact Te Kaupeka Pūhanga | Faculty of Engineering for an up to date list of courses offered.*

Renewable Energy

Courses with a total course weighting of not less than 60 points must be selected from the required courses and 15 points from the elective courses in Renewable Energy.

Course Code	Course Title	Pts	2024	Location	P/C/R/RP/EQ
ENCN623	Energy Systems Modelling and Analysis	15	S2	Campus	P: ENCN423 or ENME405 or subject to approval of the Head of Department
ENCN625	Wind Resource Modelling	15	S2	Campus	P: ENCN423 or ENME405 or subject to approval of the Head of Department
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.

Elective Courses

Course Code	Course Title	Pts	2024	Location	P/C/R/RP/EQ
ENAE605	Sustainable Building Design Practice	15	X	Campus	P: Subject to approval of the Head of Department
ENAE607	Building Energy Systems Design Practice	15	X	Campus	P: Subject to approval of the Head of Department.
ENCH483	Advanced Energy Processing Technologies and Systems	15	S1	Campus	P: ENGR404
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
ENGR682	Special Topic in Engineering - Project	15	S1	Campus	P: Subject to the approval of the Head of Department.
			W	Campus	
			S2	Campus	
ENGR683	Special Topic in Engineering - Project	30	A	Campus	P: Subject to the approval of the Dean of Engineering
			S1	Campus	
			W	Campus	
			S2	Campus	
ENME605	Advanced Energy Systems Engineering	15	NO		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