

# 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 [courseinfo.canterbury.ac.nz](http://courseinfo.canterbury.ac.nz)

### 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 | 2025 | Location | P/C/R/RP/EQ  |
|-------------|---|-----|------|----------|--|
| ENME602     | Advanced Vibrations and Acoustics                         | 15  | NO   |          | P: Subject to approval of the Head of Department.<br>R: ENME402<br>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.<br>R: ENME403<br>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.<br>R: ENME404<br>RP: Bachelors degree in Engineering or equivalent          |
| ENME605 | Advanced Energy Systems Engineering  | 15 | NO |        | P: Subject to approval of the Head of Department.<br>R: ENME405, ENGR404<br>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.<br>R: ENME406<br>RP: Bachelors degree in Engineering or equivalent          |
| ENME607 | Advanced Materials Science and Engineering   | 15 | S2 | Campus | P: Subject to approval of the Head of Department.<br>R: ENME407<br>RP: Bachelors degree in Engineering or equivalent          |
| ENME611 | Advanced Mechanical System Design  | 15 | NO |        | P: Subject to approval of the Head of Department.<br>R: ENME411<br>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.<br>R: ENME417<br>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.<br>R: ENME418<br>RP: Bachelors degree in Engineering or equivalent          |
| ENME623 | Advanced Instrumentation and Sensors   | 15 | S1 | Campus | P: Subject to approval of the Head of Department.<br>R: ENME423<br>RP: Bachelors degree in Engineering or equivalent          |
| ENME625 | Special Topic  | 15 | S2 | Campus | 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

| Course Code | Course Title  | Pts | 2025 | Location | P/C/R/RP/EQ  |
|-------------|---|-----|------|----------|--|
| ENAE607     | Building Energy Systems Design Practice             | 15  | X    | Campus   | 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.<br>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     | Renewable Energy Technologies                       | 15  | S1   | Campus   | P: Approval from the Head of Department required.<br>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  | W    | Campus   | P: Subject to the approval of the Head of Department.  |
|             |   |     | S1   | Campus   |  |
|             |   |     | S2   | Campus   |  |

|         |  |    |    |        |   |
|---------|--|----|----|--------|---|
| ENME605 | Advanced Energy Systems Engineering          | 15 | NO |        | P: Subject to approval of the Head of Department.<br>R: ENME405, ENGR404<br>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  |