

# The Degree of Master of Financial Engineering (MFEng – 180 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 2018.
- (b) This degree was first offered in 2017.

## 2. Variations

In exceptional circumstances the Amo Matua, Pūtaiao | Executive Dean of Science 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 Financial Engineering, a student is required to take 180 points as follows:

- (a) 120 points of courses from Schedule C to these Regulations
- (b) 15 points of courses from Schedule E to these Regulations. Other 600-level courses may replace these courses if approved by the Tumuaki, Te Tari Ōhanga Tahua | Head of the Department of Economics and Finance
- (c) 30 points from MATH or STAT at 400-level
- (d) 15 points from MATH, STAT, or FINC at 400 or 600-level as approved by the Kaihautū Pūhanga Tāhual Director of Financial Engineering.

## 4. Admission to the qualification

A student for the Degree of Master of Financial Engineering (MFEng), before enrolling in the programme of study for this degree, must have:

- (a) both
  - i. qualified for a degree in an Aotearoa New Zealand university with a B+ Grade Point Average in the 300-level courses, and
  - ii. been approved as a student for the degree by the Amo Matua, Pūtaiao | Executive Dean of Science or delegate based on relevance and standard of undergraduate studies;
- (b) been credited with:
  - i. STAT101 or equivalent, and
  - ii. FINC201 or equivalent, and
  - iii. any two of MATH201, MATH202, MATH203, STAT213, or equivalent.

A Student who has met the requirements in Regulations 4(b)(i) and 4(b)(iii), but not Regulation 4(b)(ii), may be required to successfully complete summer course FIEC 601 prior to enrolling in the MFEng.

## 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 36 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 30 points of 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**

There are no exit qualifications for this degree.

**Schedule C: Compulsory Courses for the Degree of Master of Financial Engineering**

For full course information, go to [www.canterbury.ac.nz/courses](http://www.canterbury.ac.nz/courses)

Course Code	Course Title	Pts	2023	Location	P/C/R/PP/EQ
COSC480	Computer Programming	15	S1	Campus	P: Subject to approval of the Head of Department
			S1	Distance Learning	
			S2	Campus	
			S2	Distance Learning	
FENG601	Applications of Financial Engineering	45	SU2	Campus	P: 135 points course work of Master in Financial Engineering
FINC612	Derivatives Securities	15	S1	Campus	P: (1) Subject to approval in BCom(Hons) (Finance), MCom (Finance) or MAFE; and (2) FINC201; and (3) FINC203 R: FINC312
FINC623	Advanced Derivative Securities	15	S2	Campus	P: Subject to approval of the Head of Department
MATH412	Optimization	15	S1	Campus	P: Subject to approval of the Head of School R: EMTH604
STAT456	Time Series and Stochastic Processes	15	S2	Campus	P: Subject to approval of the Head of School R: ECON663, ECON614

**Schedule E: Elective Courses for the Degree of Master of Financial Engineering**

Course Code	Course Title	Pts	2023	Location	P/C/R/PP/EQ
FINC624	Asset Pricing	15	S2	Campus	P: Subject to approval of the Head of Department
FINC628	Risk Analysis	15	NO		P: Subject to approval by Head of Department
FINC629	Credit Risk Management	15	S1	Campus	P: Subject to approval of the Head of Department
			S2	Campus	

# The Degree of Master of Science (MSc – 240 points)

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

## 1. Version

These Regulations came into force on 1 January 2018.

## 2. Variations

In exceptional circumstances the Amo Matua, Pūtaiao | Executive Dean of Science or delegate may approve a personal programme of study which does not conform to these Regulations.

## 3. The structure of the qualification

The programme for the Degree of Master of Science consists of Part I and Part II as set out in Schedule S to these Regulations.

- (a) A student who holds a Bachelor's degree must complete Parts I and II.
- (b) A student must complete Part II only if:
  - i. they hold a bachelor's degree with honours or a postgraduate diploma, and
  - ii. that degree or diploma was in the same discipline as the sought Master's degree.
- (c) A student seeking their Master of Science in a different discipline to that of their previous degree or postgraduate diploma may need to complete all or some of Parts I and II at the discretion of the Amo Matua, Pūtaiao | Executive Dean of Science or delegate.
- (d) A student may be enrolled in Part I and Part II sequentially or concurrently.
  - i. A student who wishes to enrol concurrently must have at least a B+ Grade Point Average in the prerequisites listed in Schedule S, and be approved by the Tumuaki Tari/Kura | Head of Department/School.
- (e) Before submitting Part II for examination, a student must pass Part I to the standard required by the Tumuaki Tari/Kura | Head of Department/School.
- (f) A student may, with the approval of the Amo Matua, Pūtaiao | Executive Dean of Science or delegate, replace up to 60 points of the Part I programme prescribed for their discipline by courses for another discipline at an equivalent level.

## 4. Admission to the qualification

- (a) A student for the Degree of Master of Science must, before enrolling for the degree, have either:
  - i. qualified for the Bachelor of Science, with or without Honours; or
  - ii. qualified for a bachelor's degree, with or without honours, and if necessary, passed any qualifying programme required by the Amo Matua, Pūtaiao | Executive Dean of Science or delegate; or
  - iii. qualified for the award of a Postgraduate Diploma in Science; or
  - iv. been admitted with Academic Equivalent Standing.
- (b) A student for the degree must have been approved as a student by the Amo Matua, Pūtaiao | Executive Dean of Science or delegate based on relevance and standard of previous study.

## 5. Subjects

The degree may be awarded in any of the majors listed in Schedule S to these Regulations.

## 6. Time limits

- (a) The time limit for Part I is:
  - i. 12 months for full-time enrolment, or
  - ii. 24 months for part-time enrolment.
- (b) The time limit for Part II is:
  - i. 24 months for full-time enrolment, or
  - ii. 48 months for part-time enrolment.

## 7. Transfers of credit, substitutions and cross-credits

This qualification adheres to the General Regulations of the University with no additional stipulations.

## 8. Progression

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

- (a) If a student fails up to 30 points for Part I of the Master of Science degree, they may, with the permission of the Amo Matua, Pūtaiao | Executive Dean of Science 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 for Part I 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) A student who has presented Part I of a Master of Science degree, but who has not submitted Part II, may apply to the Amo Matua, Pūtaiao | Executive Dean of Science or delegate to transfer to the Bachelor of Science with Honours degree or the Postgraduate Diploma in Science, provided that the programme of study meets the requirement for that degree or diploma.
- (b) A student who has not met the requirements of the Master of Science degree, or wishes to transfer, may apply to the Amo Matua, Pūtaiao | Executive Dean of Science or delegate for admission to the Postgraduate Diploma in Science, and complete such courses as specified by the Amo Pūtaiao | Dean of Science.
- (c) A student who has presented Part I of a Master of Science degree in Computer Science, but who has not submitted Part II, may apply to the Amo Matua, Pūtaiao | Executive Dean of Science or delegate to be admitted to the Professional Master of Computer Science and have credits transferred.
- (d) A student who has presented Part I of a Master of Science degree, but who has not submitted Part II, may apply to the Executive Dean of Science or delegate to be admitted to the Master of Artificial Intelligence and have credits transferred.
- (e) A student who has started Part II (thesis) may apply to the Amo Rangahau | Dean of Postgraduate Research to transfer the PhD.
- (f) A student who has presented Part I of the Master of Science, Water Science and Management, but who has not submitted Part II, may apply to the Amo Matua, Pūtaiao | Executive Dean of Science or delegate to be admitted to the Postgraduate Diploma in Water Science and Management or the Masters in Water Science and Management and have credits transferred.
- (g) A student who has presented Part I of a Master of Science degree, but who has not submitted Part II, may apply to the Executive Dean of Science or delegate to be admitted to the Master of Artificial Intelligence and have credits transferred.

## Schedule S: Subject Courses for the Degree of Master of Science

For full course information, go to [www.canterbury.ac.nz/courses](http://www.canterbury.ac.nz/courses)

### Mātai Te Pou Tonga | Antarctic Studies

The Antarctic Studies programme is MSc Part II only and consists of a thesis totalling 120 points.

### Mātai Kōkōrangī | Astronomy

Part I: ASTR480 (or SCIE481 and SCIE482), two courses from ASTR421–427, and another four courses from ASTR421–427, PHYS401–460, MDPH403, MDPH406, with a maximum of three courses from PHYS440–460.

Notes: Not all courses may be available in any one year. With the approval of the Tumuaki Kura | Head of School, up to two courses may be replaced by appropriate courses from another subject. The choice of courses is subject to the approval of the Tumuaki Kura, Te Kura Matū | Head of the School of Physical and Chemical Sciences.

Part II: A thesis (ASTR690) which shall normally be presented not later than 12 months after the date of enrolment for Part II.

P: 90 points at 300-level approved by the Tumuaki Kura | Head of School.

Note: A student will normally be expected to have taken PHYS311, PHYS312 or PHYS313, and PHYS326.

### Mātai Matū Koiora | Biochemistry

A project (BCHM480, or SCIE481 and SCIE482) plus a further 90 points of courses selected from BCHM455 (BIOL455), BCHM456 (BIOL456), BCHM457 (BIOL457), BCHM459 (BIOL459), BCHM460 (BIOL460), BCHM461 (BIOL461), BCHM462 (BIOL462), BCHM470, and CHEM430-433 approved by the Kaihautū, Mātai Matū Koiora | Director of Biochemistry. Other suitable courses include: BCHM407-409, BIOL429-482, BIOL481, BIOL496.

P: BCHM305, BCHM306, BCHM338, BCHM339 and BCHM381; and  
a minimum of 15 points from CHEM335, 337, 340, BIOL313, 330, 351 or 352.

### **Mātai Pūtaiao Koiora | Biological Sciences**

Part I: Courses totalling at least 120 points including BIOL411 and BIOL412. At least 60 points are to be selected from other BIOL 400-level courses. The remaining courses may be selected with the approval of Te Kura Pūtaiao Koiora | School of Biological Sciences Kairuruku Tau Tuawhā | Fourth Year Coordinator.

Part II: A thesis (BIOL690) which shall normally be presented no later than 12 months after the date of enrolment for Part II. A student must consult the MSc regulations for details of other requirements for this degree. In determining the class of honours, Part I and Part II are weighted in the ratio 2:3

P:

- (1) 60 points from 300-level BIOL courses, BCHM305, BCHM306; and
- (2) BIOL309 or GEOG309 or PSYC206 or STAT201 or STAT202.

### **Biotechnology**

Part I: Courses totalling at least 120 points including BIOL411, BIOL412 and BIOL496. At least 45 points are to be selected from BIOL429, BIOL455-457 (BCHM455-457), and BIOL459-463 (BCHM459-462). The remaining courses may be selected with the approval of Te Kura Pūtaiao Koiora | School of Biological Sciences Kairuruku Tau Tuawhā | Fourth Year Coordinator.

Part II: A thesis (BIOT690). A student must consult the MSc regulations for details of other requirements for this degree. In determining the class of honours, Part I and Part II are weighted in the ratio 2:3.

P: At least 60 points from BCHM301, BCHM305, BCHM306, BIOL313, BIOL333, BIOL334, BIOL335, BIOL351, BIOL352 or appropriate advanced level courses in biochemistry and the molecular biosciences.

### **Cellular and Molecular Biology**

Part I: Courses totalling at least 120 points including BIOL411 and BIOL412. At least 30 points are to be selected from BIOL455-456 (BCHM455-456), BIOL459-462 (BCHM459-462) and BIOL496. The remaining courses may be selected with the approval of Te Kura Pūtaiao Koiora | School of Biological Sciences Kairuruku Tau Tuawhā | Fourth Year Coordinator.

Part II: A thesis (CEMB690). A student must consult the MSc regulations for details of other requirements for this degree. In determining the class of honours, Part I and Part II are weighted in the ratio 2:3.

P: At least 60 points selected from BCHM301, BCHM305, BCHM306, BIOL313, BIOL330, BIOL333, BIOL334, BIOL335, BIOL351, BIOL352.

Note: A student will normally be expected to take BIOL309.

### **Mātai Matū | Chemistry**

P: 200-level Required: CHEM211, CHEM212 (BCHM212), CHEM242 (BCHM206), CHEM251, either CHEM281 or BCHM281.  
300-level Required: 75 points from CHEM 300-level courses, excluding CHEM329 and CHEM330, and including at least one of CHEM381 and CHEM382.

RP: At least 30 points from courses in Mathematics and/or Statistics.

### **Mātai Hinengaro o te Tamaiti, o te Whānau | Child and Family Psychology**

Part I: 150 points - which shall normally consist of six courses comprising CFPY601-603, COUN671, HLT472 and an approved 15 point postgraduate Research Methods course, or equivalent, as approved by the Tumuaki Kura, Te Kura Mātai Hauora | Head of the School of Health Sciences.

Part II: 120 points – consisting of a thesis (CFPY695). In determining the class of Honours Part I and Part II are

weighted in the ratio 1:1. The subject area of the thesis shall be approved prior to registration of the thesis by either:

- the Tumuaki Kura, Te Kura Mātai Hauora | Head of the School of Health Sciences (in the case of students concurrently enrolled in the Postgraduate Diploma in Child and Family Psychology) or
- The Tumuaki Tari/Kura/Pokapū | Head of Department/School/Centre in which the proposed senior supervisor is located (in consultation with the Kaihautū | Director, Health Sciences Centre and any other HOD/s involved in supervision).

P: Part I

- A Bachelor's degree with a major in Psychology; or
- Any relevant Bachelor's degree and a Graduate Diploma of Science in Psychology; and
- PSYC206 Research Design and Statistics or other research methods paper deemed equivalent.

A student will normally be expected to have at least a B average in their 300-level undergraduate courses.

Part II: Completion of Part I

## Computational and Applied Mathematical Sciences

Part I: Eight approved courses chosen from MATH401–490 and STAT401–490 (other than MATH449 or STAT449). With the approval of the Kairuruku Hōtaka | Programme Coordinator, candidates may substitute one or two courses from other subjects in an applications area.

Part II: A thesis (CAMS690).

The weighting of Parts I and II will be in the ratio 1:2.

P: Met the majoring requirements for entry into a BSc(Hons) in Mathematics, or Statistics, or, with HOS approval, the equivalent.

## Computer Science

Part I: COSC469 and 105 points from COSC401–449, COSC462–468, COSC471–474, COSC477–479, SENG401, SENG403–499, DATA430–439. With the approval of the Tumuaki Tari | Head of Department, up to 30 points of these 105 points may be replaced by appropriate courses from another subject.

Part II: a thesis (COSC690).

In determining the class of Honours, Part I and Part II are weighted in the ratio 1:2.

P: 60 points from COSC301–399, SENG301–399, ENCE360–361, DATA301.

## Mātauranga Raraunga | Data Science

Part I consists of eight courses (with the approval of the Kaihautū Akoranga | Director of Studies) from COSC (COSC401–449, COSC462–469, COSC471–474, COSC477–479), DATA (DATA420–440), MATH (MATH401–448, 450–490), STAT (STAT401–448, 450–490), and SENG (SENG401, 403–490). At least 30 points must be taken from the prescribed COSC and SENG coded courses, and a further 30 points from the prescribed MATH and STAT coded courses.

Part II consists of a project (DATA690).

P: Bachelor of Science.  
All the required 300-level courses for the Data Science major in the Bachelor of Data Science or the

## Disaster Risk and Resilience

The Disaster Risk and Resilience programme is MSc Part II only and consists of a thesis totalling 120 points.

## Ecology

Part I: Courses totalling at least 120 points including BIOL411 and BIOL412. Additional courses are to be selected, with the approval of Te Kura Pūtaiao Koiora | School of Biological Sciences Kairuruku Tau Tuwhā | Fourth Year Coordinator from BIOL420, BIOL422–429, BIOL438, ENVR410, ENVR411, and FORE616.  
Part II: A thesis (ECOL690). A student must consult the MSc regulations for details of other requirements for this degree. In determining the class of honours, Part I and Part II are weighted in the ratio 2:3.

P:

- 60 points from BIOL370–379; and

- (2) BIOL309 or equivalent.

## Economics

Part I: Eight courses or their equivalent from ECON601–679. Some Semester 2 courses may have a Semester 1 course as a prerequisite. All full time students must normally take four courses or their equivalent in each semester.

Part II: A thesis (ECON 699).

P:

- (1) ECON206 or ECON325; and
- (2) ECON213 or STAT202 or STAT213; and
- (3) ECON203 or (ECON207 and ECON208); and
- (4) 60 points from 300-level Economics courses, including ECON321, ECON324, ECON326 (or equivalent as approved by the Tumuaki Tari | Head of Department).

Alternatively, a student may apply to enter with a Graduate Diploma in Economics or a Graduate Diploma in Science, normally including ECON321, ECON324 and ECON326. Normally a grade average of B or better is required in ECON 300-level prerequisite courses.

## Engineering Geology

The programme of study consists of MSc Part II only consisting of a thesis totalling 120 points.

## Mātai Pūtaiao Aronukurangi | Environmental Science

Part I: ENVR411 and ENVR415 plus 90 points of relevant courses in ANTA, BIOL, CHEM, DATA, DRRE, ENCH, ENCI, ENGE, ENVR, FORE, GEOG, GEOL, HLTH, MATH, STAT, WATR

The selection should form a coherent thematic programme, and must be approved by the Director of Postgraduate Studies.

Note that normally all individual course prerequisites must be satisfied.

Part II: A thesis (ENVR690) which shall normally be presented not later than 12 months after the date of enrolment for Part II. In determining the class of honours, Part I and Part II are weighted in the ratio of 2:3

P: A B average (5.0 GPA) in 90 points of courses at 300-level from majors in the BSc, FORE or ENCN.

## Finance

Part I: A minimum of 120 points (1.00 EFTS) from FINC601–680. Enrolment in any combination of courses is subject to the approval of the Tumuaki Tari | Head of Department. A student can normally attempt each course on offer only once.

Part II: A thesis (FINC 699)

The weighting of Parts I and II in the assessment is 1:1.

P: Either: a BSc or BCom with major in Finance, including:

- (1) ECON202; and
- (2) ECON213 (or any 30 points from STAT 200-level courses); and
- (3) FINC205; and
- (4) FINC331.

A student requires at least a B+ average in 300-level FINC courses.

Or: a bachelors degree in a subject other than Finance, but including:

- (1) ECON213 (or any 30 points from STAT 200-level courses); and
- (2) FINC331; and
- (3) an additional 30 points in 300-level FINC courses.

A student requires at least an A- average in 300-level FINC courses.

## Geography

Part I: Courses equivalent to 120 points from GEOG401-420 and GISC402-417, with the approval of the Tumuaki Kura | Head of School. Enrolment in GEOG420 (or SCIE481 and SCIE482) is recommended. Note: Not all courses will be offered in any one year.

Part II: Thesis (GEOG695).

In determining the class of Honours Part I and Part II are weighted in the ratio 1:1.

P:

- (1) 90 points in 300-level courses approved by the Tumuaki Kura | Head of School (including GEOG309 and at least 30 other points in 300-level Geography courses); or
- (2) 120 points at 300-level of which 60 are in Geography and 60 are in subjects approved by the Tumuaki Kura | Head of School.
- (3) Another undergraduate qualification, subject to approval by the Tumuaki Kura | Head of School.

## Mātai Aronuku | Geology

The programme of study for Part I is Courses equivalent to 120 points chosen from GEOL471-499 with the approval of the Tumuaki Kura, Te Kura Aronukurangi | Head of the School of Earth and Environment.

Part II is a thesis (GEOL690).

In determining the class of Honours, Part I and II are weighted in the ratio of 2:3.

In order to proceed to Part II, the Tumuaki Kura | Head of School normally requires a student to have attained a B+ grade average in Part I. A student who fails to meet this requirement, and who is declined entry to Part II by the Tumuaki Kura | Head of School, may apply to have the courses credited towards the Postgraduate Diploma in Science.

Notes:

1. With the approval of the Tumuaki Kura, Te Kura Aronukurangi | Head of the School of Earth and Environment, up to 45 points from another relevant subject may replace up to 45 points from GEOL courses.
  2. Practical and fieldwork may be required as part of any GEOL471-499 courses.
  3. Not all courses may be offered in any one year.
- P: GEOL351 and GEOL352 (or equivalent fieldwork), and an additional 60 points from other GEOL 300-level courses, these prerequisite courses to have been passed with a grade average that meets the approval of the Tumuaki Kura | Head of School (the normal requirement is at least a B grade average).

## Geospatial Science and Technology

The programme of study consists of MSc Part II only consisting of a thesis totalling 120 points; GISC690.

P: GISC402 or equivalent.

## Industrial and Organisational Psychology

Part I consists of courses totalling 120 points selected from APSY601-619 and PSYC451, 460, 464, 473, and must include PSYC460. With the approval of the Tumuaki Kura | Head of School, one or more PSYC 400-level courses may be substituted. Note: Not all courses may be offered in any one year.

Part II consists of APSY660 Dissertation (90 points) and a further 30 points selected from the same set of courses offered in Part I.

P:

- (1) PSYC105 and PSYC 06; and
- (2) PSYC206, and three courses from PSYC207-212, and
- (3) At least 75 points of 300-level PSYC, including PSYC344.

A B grade average in three PSYC 300-level courses is normally required. See the Limitation of Entry regulations.

## Pāngarau | Mathematics

Part I: Eight courses chosen from MATH401-490 and STAT401-490 (other than MATH449 or STAT449). Normally at least six courses will be chosen from the MATH course list.

Part II: A thesis (MATH690).

The weighting of Parts I and II shall be in the ratio 1:2.



P: Part I:

- (1) 45 points from (MATH201 or EMTH210), MATH202, (MATH203 or EMTH211), MATH220 and MATH240 (including MATH201 and at least one of (MATH202 or MATH203) or equivalent); and
- (2) 60 points from MATH301–394; and
- (3) An additional 30 points from MATH301–394 and STAT301–394 or other approved courses.

## Medical Physics

Part I: Seven courses from MDPH401–410 and one course from PHYS410–460. With the approval of the Tumuaki Tari | Head of Department, one course may be replaced by an appropriate course from another subject. Note: the choice of courses is subject to the approval of the Tumuaki Kura, Te Kura Matū | Head of the School of Physical and Chemical Sciences.

Part II: A thesis (MDPH690) which shall normally be presented no later than 12 months after the date of enrolment for Part II.

P: 90 points at 300-level, approved by the Tumuaki Kura | Head of School.

## Medical Physics (Clinical)

Only students accepted as Medical Physics Registrars by the Australasian College of Physical Scientists and Engineers in Medicine are eligible for this programme.

Part I: Seven courses from MDPH401–410 and one course from PHYS410–460; one course may be replaced by an appropriate course from another subject. Note: the choice of courses is subject to the approval of the Tumuaki Kura, Te Kura Matū | Head of the School of Physical and Chemical Sciences.

Part II: A thesis (MDPH690) which shall normally be presented no later than 12 months (full-time enrolment) or 24 months (part-time enrolment) after the date of enrolment, approved by the Tumuaki Kura | Head of School.

## Microbiology

Part I: Courses totalling at least 120 points including BIOL411, BIOL412, BIOL455 (BCHM455) and BIOL456 (BCHM456). At least 30 points are to be selected from BIOL457 (BCHM457), BIOL459 (BCHM459), BIOL460 (BCHM460), BIOL463 and BIOL496. Additional courses may be selected with the approval of Te Kura Pūtaiao Koiroa | School of Biological Sciences Kairuruku Tau Tuawhā | Fourth Year Coordinator.

Part II: A thesis (MBIO690). A student must consult the MSc regulations for details of other requirements for this degree. In determining the class of honours, Part I and Part II are weighted in the ratio 2:3.

P:

- (1) BIOL313; and
- (2) At least 45 points selected from BCHM301, BIOL330, BIOL331, BIOL333, BIOL335, BIOL351, BIOL352.

Note: A student will normally be expected to take BIOL309.

## Whakaaroaro | Philosophy

Part I: 120 points chosen from PHIL431–PHIL472, PHIL474, PHIL475, PHIL495, PHIL498 (as for Philosophy BA(Hons)).

Part II: a thesis (PHIL695).

In determining the class of honours, Part I and II are weighted in the ratio 1:1.

P: 60 points in Philosophy at 300-level.

## Mātai Ahupūngao | Physics

Part I: PHYS480 (or SCIE481 and SCIE482) and six courses chosen from PHYS401–460, ASTR421–426, MDPH403, MDPH406. A maximum of three courses from PHYS440–460. Not all courses may be available in any one year. With the approval of the Tumuaki Kura | Head of School, up to two courses may be replaced by appropriate courses from another subject. Note: the choice of courses is subject to the approval of the Tumuaki Kura, Te Kura Matū | Head of the School of Physical and Chemical Sciences.

Part II: A thesis (PHYS690) which shall normally be presented not later than 12 months after the date of enrolment for Part II.

120 points at 90% level. No Regulations for a Kura | Head of School. Note: A student will normally be expected to have taken PHYS311, PHYS312 or PHYS313 and PHYS326.

## Mātai Hinengaro | Psychology

Part I: PSYC460 and 105 points from PSYC404-441 and PSYC452-499.

Part II:

- (a) PSYC695 Psychology MSc Thesis
- (b) For a student who has not already been credited with PSYC460 or equivalent Research Methods in Psychology an approved Research Methods course will need to be completed.

P:

- (1) PSYC105 and PSYC106; and
- (2) At least 60 points of 200-level PSYC courses, including PSYC206 (or equivalent) and
- (3) At least 75 points of 300-level PSYC, including PSYC344.

A B grade in 60 points at 300-level Psychology, including PSYC344 or equivalent courses is normally required.

## Speech and Language Sciences

The Speech and Language Sciences programme consists of MSc Part II only consisting of one course and a thesis totalling 120 points, normally completed in one year.

Part II:

- (a) SPSC605 Advanced Clinical Practicum, Supervision, and Administration (0.125 EFTS) or SPSC604 Research Design (0.09 EFTS)
- (b) Non-clinical pathway

SPSC696 MSc Thesis (Non-clinical) (1.0 EFTS)

P:

- (1) SPSC605 and SPSC695: Four-year Bachelor of Speech and Language Therapy degree or a Bachelor of Speech and Language Pathology with Honours degree.
- (2) SPSC696: Four-year Bachelor of Speech and Language Therapy degree or an approved undergraduate honours degree qualification in a related discipline.

Note: A B average or above is normally required.

## Tatauranga | Statistics

Part I: Eight courses chosen from STAT401-490 and MATH401-490 (other than STAT449 or MATH449). Normally one of the eight courses must be STAT461 or STAT464 if the student has not been credited with STAT213 or STAT314 (or equivalent) previously. Normally at least six courses will be chosen from the STAT course list.

Part II: A thesis (STAT690)

The weighting of Parts I and II shall be in the ratio of 1:2.

P: Part I:

- (1) MATH103, MATH109 or MATH199; and
- (2) 45 points from STAT201-294; and
- (3) 60 points from STAT301-394; and
- (4) An additional 30 points from STAT301-394 and MATH301-394 or other approved courses.

## Water Science and Management\*

\* Subject to Te Pokai Tara | Universities New Zealand CUAP approval, due December 2022.

Part I: 90 points of courses from Schedule C, Group 1, and 30 points of courses from Schedule E of the regulations for the Master of Water Science and Management.

Part II: A thesis (WATR690)

In order to proceed to Part II, the Tumuaki Kura | Head of School normally requires a student to have attained a B+ grade average in Part I. A student who fails to meet this requirement, and who is declined entry to Part II by the Tumuaki Kura | Head of School, may apply to have the courses credited towards the Postgraduate

Diploma in Water Science and Management.

## The Degree of Master of Spatial Analysis for Public Health (MSAPH – 180 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 2018.
- (b) This degree was first offered in 2018.

### 2. Variations

In exceptional circumstances the Amo Matua, Pūtaiao | Executive Dean of Science 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 Degree of Master of Spatial Analysis for Public Health a student must complete all courses listed in Schedule C to these Regulation

### 4. Admission to the qualification

A student for the Degree of Master of Spatial Analysis for Public Health, before applying to enrol in the degree, must have:

- (a) qualified for a university degree and have some prior training or experience in GIS and statistics (subject to approval of the Kaihautū Hōtaka | Programme Director and/or Amo Matua, Pūtaiao | Executive Dean of Science or delegate);
- (b) presented evidence of ability for advanced level academic study by normally having achieved a B Grade Point Average in relevant 300-level courses;
- (c) been approved as a student for the degree by the Amo Matua, Pūtaiao | Executive Dean of Science 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 36 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 30 points of course failures to qualify for the degree, with the following stipulation:

GEOG694 may not be failed.

### 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

There are no advancing or exit qualifications for this degree.

## Schedule C: Compulsory Courses for the Degree of Master of Spatial Analysis for Public Health

For full course information, go to [www.canterbury.ac.nz/courses](http://www.canterbury.ac.nz/courses)

Course Code	Course Title	Pts	2023	Location	P/C/R/PP/EQ
GEOG694	Community or Workplace Based Project	60	NO		P: Subject to approval of the Head of School
GISC402	GI Science Research	15	S2	Campus	P: Entry subject to the approval of the Programme Director, GIS RP: GEOG205 or GISC422
GISC404	Spatial Analysis	15	S1	Campus	P: Subject to the approval of the Programme Director, GIS RP: GEOG205 or GISC 422, GEOG323
GISC411	Spatial Analytics for Health, Society and Environment	15	S2	Campus	P: Entry is subject to the approval of the Programme Director, GIS. RP: HLTH462
HLTH402	Health Information Management	30	S2	Campus	P: Subject to approval of the Head of School
			S2	Distance Learning	
HLTH462	Quantitative Methods in Health	15	S2	Campus	P: Subject to approval of the Head of School R: HLTH460
STAT447	Official Statistics	15	S2	Campus	P: Subject to approval of the Head of School R: STAT474
STAT448	Big Data	15	S1	Campus	P: Subject to approval of the Head of School
			S1	Distance Learning	
			S2	Campus	
			S2	Distance Learning	

## The Degree of Master of Urban Resilience and Renewal (MURR – 180 points)

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

### 1. Version

- These Regulations came into force on 1 January 2018.
- This degree was first offered in 2016.

### 2. Variations

In exceptional circumstances the Amo Matua, Pūtaiao | Executive Dean of Science 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 Urban Resilience and Renewal student must be credited with:

- 150 points from Schedule C to these Regulations; and
- other courses totalling 30 points at 400-level, approved by the Kaihautū Hōtaka | Programme Director

### 4. Admission to the qualification

A student for the Degree of Master of Urban Resilience and Renewal, before applying to enrol in the degree, must have:

- qualified for a university degree which is relevant to urban resilience and renewal with a B Grade Point Average or better (eg, geography, environmental science/studies, planning, sociology or any other relevant degree subject to approval of the Amo Matua, Pūtaiao | Executive Dean of Science or delegate or;
- been admitted with Academic Equivalent Standing; and
- been approved as a student for the degree by the Amo Matua, Pūtaiao | Executive Dean of Science 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 36 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 30 points of course failures to qualify for the degree, with the following stipulation:

GEOG692 may not be failed.

## 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

There are no advancing or exit qualifications for this degree.

## Schedule C: Compulsory Courses for the Degree of Master of Urban Resilience and Renewal

For full course information, go to [www.canterbury.ac.nz/courses](http://www.canterbury.ac.nz/courses)

Course Code	Course Title	Pts	2023	Location	P/C/R/RP/EQ
GEOG402	Resilient Cities	30	S1	Campus	P: Entry subject to approval of the Head of School R: GEOG446
GEOG409	Coasts and Rivers: from Natural Processes to Urban Environments	30	S1	Campus	P: Entry subject to approval of the Head of School R: GEOG437
GEOG415	Geography Internship	30	S2	Campus	P: Entry subject to approval of the Head of School R: GISCA15
GEOG692	Community or Workplace Based Project	60	A	Campus	P: Subject to approval of the Head of School
			X	Campus	

## The Degree of Master of Water Resource Management (MWaterRM – 240 points)

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

### 1. Version

- These Regulations came into force on 1 January 2018.
- This degree was first offered in 2011.

### 2. Variations

In exceptional circumstances the Amo Matua, Pūtaiao | Executive Dean of Science 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 Water Resource Management, a student must complete Part I and Part II, and be credited with 240 points.

- A student admitted under Regulation 4(a)(ii) or 4(a)(iii) must successfully complete both parts.

- (b) A student admitted under Regulation 4(a)(i) must successfully complete Part II only.
- (c) Part I consists of at least 120 points comprising:
  - i. All Schedule C: Group 1 courses from the Schedule to the Master of Water Resource Management;
  - ii. at least 30 points from Schedule E courses to the Master of Water Resource Management;
  - iii. the remainder of the courses can be selected from appropriate 400-level courses (or 600-level courses at Te Whare Wānaka o Aoraki | Lincoln University) as listed in the Te Whare Wānanga o Waitaha | University of Canterbury or other university calendars.
- (d) Part II shall consist of the completion of all Schedule C: Group 2 courses.

#### 4. Admission to the qualification

A student for the Degree of Master of Water Resource Management, before enrolling for the degree, must have:

- (a) either:
  - i. qualified for the Postgraduate Diploma in Water Resource Management; or
  - ii. qualified for an Aotearoa New Zealand university degree relevant to Water Resource Management and the proposed programme of study; or
  - iii. been admitted with Academic Equivalent Standing; and
- (b) proven their ability for advanced level academic study by achieving a B Grade Point Average or above; and
- (c) been approved as a student by the Amo Matua, Pūtaiao | Executive Dean of Science or delegate.

#### 5. Subjects

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

#### 6. Time limits

The time limits for Part I and II for this qualification are:

24 months each.

#### 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, with the following stipulations:

- (a) A student who fails any courses offered for Part I shall not be awarded a pass in Part I and shall not be permitted to proceed to Part II, but will be awarded a Certificate of Proficiency for each course passed.
- (b) Re-enrolment in Part I to repeat failed courses or offer any other course in its place will only be permitted in exceptional circumstances and requires a recommendation from the Kaihautū | Director of the Waterways Centre for Freshwater Management and the permission of the Amo Matua, Pūtaiao | Executive Dean of Science or delegate.
- (c) A student may also apply to the Kaihautū | Director of the Waterways Centre for Freshwater Management to repeat relevant courses to obtain a B Grade Point Average for entry to Part II.
- (d) A student who passes all of the courses for Part I, but who does not attain a B Grade Point Average or better shall not be permitted to proceed to Part II (unless special permission has been granted by the Amo Matua, Pūtaiao | Executive Dean of Science or delegate), but may apply for the award of the Postgraduate Diploma in Water Resource Management.

#### 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) There are no advancing qualifications for this degree.
- (b) A student who has not met the requirements for the Master of Water Resource Management or who wishes to transfer to the Postgraduate Diploma in Water Resource Management may apply to the Amo

Matua, Pūtaiao | Executive Dean of Science or delegate for admission.

- (c) A student who passes all the courses for Part I and is eligible to proceed to Part II, but who chooses not to do so, may apply for the award of the Postgraduate Diploma in Water Resource Management.

## Schedule C: Compulsory Courses for the Degree of Master of Water Resource Management

For full course information, go to [www.canterbury.ac.nz/courses](http://www.canterbury.ac.nz/courses)

### Group 1: Part I

Course Code	Course Title	Pts	2023	Location	P/C/R/RP/EQ
WATR401	Advanced Water Resources	15	NO		P: (1) Entry is subject to approval by the Programme Director (2) BSc, BE(Hons), BEMP (LU) or equivalent qualification or experience in a field of relevance in water resource management
WATR402	Water Quality and Quantity Assessment	15	NO		P: (1) Entry is subject to approval by the Programme Director (2) BSc, BE, BEMP (LU) or equivalent qualification or experience in a field of relevance in water resource management
WATR403	Water Management, Policy and Planning	15	NO		P: (1) Entry is subject to approval by the Programme Director, (2) BSc, BE, BEMP(LU) or equivalent qualification or experience in a field of relevance in water resource management

Note: At Te Whare Wānaka o Aoraki | Lincoln University, the course codes are WATR601, WATR602, and WATR603 respectively, and the courses are worth 20 points.

### Group 2: Part II

Course Code	Course Title	Pts	2023	Location	P/C/R/RP/EQ
WATR690	MWaterRM Thesis	120	NO		P: Subject to the approval of the Director of Waterways Centre

## Schedule E: Elective Courses for the Degree of Master of Water Resource Management

### Group 1

Course Code	Course Title	Pts	2023	Location	P/C/R/RP/EQ
ENVR410	Concepts and Principles of Environmental Science	15	NO		P: Subject to approval of the Head of School
ENVR411	Case Studies in Environmental Science	15	S1	Campus	P: Subject to approval of the Head of School
GEOG404	Resource and Environmental Management (REM) in New Zealand	30	S2	Campus	P: Entry subject to approval of the Head of School R: GEOG444
WATR404	Special Topic	15	NO		P: Subject to approval of Director, Waterways Centre for Freshwater Management

- (a) MAST603 (LU) Mana Kaitiaki (Māori Resource Management) (0.167 EFTS)  
 (b) ERST630 (LU) Environmental Policy (0.167 EFTS)  
 (c) LWST602 (LU) Advanced Resource Management Law (0.167 EFTS)

- (d) ERST633 (LU) Integrated Environmental Management (0.167 EFTS)
- (e) ECON606 (LU) Natural Resource and Energy Economics (0.167 EFTS)
- (f) ERST621 (LU) Principles of Environmental Impact Assessment (20 points)
- (g) ERST632 (LU) Economics in Environmental Policy (20 points)

A list of additional 400-level courses (or higher), which are highly recommended for students with the suitable prerequisites, will be made available by the Waterways Centre for Freshwater Management. Final course approval will be required from the Kaihautū | Director of the Waterways Centre.

## The Degree of Master of Water Science and Management (MWSM – 240 points)\*

\* Subject to Te Pokai Tara | Universities New Zealand CUAP and TEC approval, due December 2022.

This qualification is jointly awarded by the University of Canterbury and Lincoln University.

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

### 1. Version

- (a) These Regulations came into force on 1 January 2023.
- (b) This degree was first offered in 2023.

### 2. Variations

In exceptional circumstances the Amo Matua, Pūtaiao | Executive Dean of Science 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 Water Science and Management a student must have been credited with 180 points of courses selected from the Schedule to these Regulations including:

- (a) all courses listed in Schedule C to these Regulations; and
- (b) 30 points of courses selected from Schedule E to these regulations and approved by the Kaihautū | Director of the Waterways Centre for Freshwater Management.
- (c) On approval of the Kaihautū | Director, Waterways Centre for Freshwater Management a maximum of 15 points from Schedule C may be substituted with an alternative elective.

### 4. Admission to the qualification

A student for the Master of Water Science and Management, before enrolling for the degree, must have:

- (a) either:
  - i. qualified for a university degree which is relevant to Water Science and Management, with a B (5.0) Grade Point Average or above in the final year; or
  - ii. been admitted with Academic Equivalent Standing.
- (b) and been approved as a student by the Amo Matua Pūtaiao | Executive Dean of Science or delegate.

### 5. Subjects

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

### 6. Time limits

The qualification adheres to the General Regulations for the University of Canterbury with a time limit of 36 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 of Canterbury, which permits 30 points of course failures to qualify for the qualification, with the following stipulations:

- (a) Unless an exemption is granted by the Amo Matua Pūtaiao | Executive Dean of Science or delegate, failed



courses may only be those listed in Regulation 3(b).

### 9. Honours, Distinction and Merit

This qualification adheres to the General Regulations for the University of Canterbury and may be awarded with Distinction and Merit.

### 10. Exit and Upgrade Pathways to other Qualifications

- A student who has graduated with the MWSM, with a GPA of B+ (6.0) or above, may apply to be admitted to the Master of Science in Water Science and Management by thesis only.
- A student who passes all the courses for Schedule C and E except for WATR691 (the 60-point project), with a GPA of B+ (6.0) or above, may apply to transfer to the Master of Science in Water Science and Management.
- A student who passes all the courses for Schedule C and E except for WATR691 (the 60-point project) or chooses not to proceed, can apply to graduate, and exit to the Postgraduate Diploma in Water Science and Management.

## Schedule C: Compulsory Courses for the Degree of Master of Water Science and Management

For full course information, go to [www.canterbury.ac.nz/courses](http://www.canterbury.ac.nz/courses)

### Group 1

Course Code	Course Title	Pts	2023	Location	P/C/R/RP/EQ
WATR405	Research and Communication Methods	15	S1	Campus	
WATR409	Te Mana o te Wai	15	S1	Campus	P: Subject to approval of the Programme Director
WATR410	Catchment Systems	15	S1	Campus	P: Subject to approval of the Programme Director
WATR411	Water Governance	15	S2	Campus	P: Subject to approval of the Programme Director
WATR412	Hydrological Extremes	15	S2	Campus	P: Subject to approval of the Programme Director
WATR413	Freshwater Restoration and Recovery	15	S2	Campus	P: Subject to approval of the Programme Director

### Group 2

Course Code	Course Title	Pts	2023	Location	P/C/R/RP/EQ
WATR691	Water Science and Management Project	60	A	Campus	P: Subject to approval of the Programme Director

## The Degree of Professional Master of Computer Science (PMCS – 180 points)

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

### 1. Version

- These Regulations came into force on 1 January 2021.
- This degree was first offered in 2021.

### 2. Variations

In exceptional circumstances the Amo Matua, Pūtaiao | Executive Dean of Science 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 Professional Master of Computer Science a student must be credited with a minimum of 180 points towards the qualification; including:

- (a) 120 points from Schedule E; and
- (b) 60 points from Schedule C to these regulations.

#### 4. Admission to the Qualification

To be admitted to the Professional Master of Computer Science a student must have:

- (a) satisfied the Admission Regulations for admission to the University; and
- (b) qualified with an Aoteroa New Zealand Bachelor's degree in the field of computer science, computer engineering, software engineering or a similar field with either:
  - i. a B Grade Average in 300-level courses; or
  - ii. recognition of prior learning and/or experience in the field, including any qualifying programme, as approved by the Tumuaki Tari | Head of Department; or
  - iii. been admitted with Academic Equivalent Standing and
- (c) been approved as a candidate for the degree by the Amo Matua, Pūtaiao | Executive Dean of Science or delegate.

#### 5. Subjects

The degree will be awarded without endorsement, majors or minors.

#### 6. Time limits

This qualification adheres to the general regulations of the University with a time limit of 36 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 to the University with the following stipulation:

A student may not fail more than 30 points in this 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) There are no advancing qualifications for this degree.
- (b) A student who has not met the requirements of the Professional Master of Computer Science may apply to the Amo Matua, Pūtaiao | Executive Dean of Science or delegate for admission and transfer of credit to either of these programmes:
  - i. Postgraduate Certificate in Science;
  - ii. Postgraduate Diploma in Science; or
  - iii. Master of Science with Part I completed.

## Schedule C: Compulsory Course for the Degree of Professional Master of Computer Science

For full course information, go to [www.canterbury.ac.nz/courses](http://www.canterbury.ac.nz/courses)

Course Code	Course Title	Pts	2023	Location	P/C/R/RP/EQ
COSC680	Computer Science Professional Project	60	FY	Campus	P: Subject to approval of the Head of Department

## Schedule E: Elective Courses for the Degree of Professional Master of

## Computer Science

- (a) COSC401–449, COSC462–469, COSC471–474, COSC477–479
- (b) SENG401, 403–499
- (c) DATA430–439
- (d) Up to 30 points from non-project courses in ENCE, MATH, MBIS or STAT at 400 or 600-level, MAOR404, or other courses approved by the Tumuaki Tari | Head of Department.

A student wishing to apply for a transfer to the Master of Science in Computer Science Part 2 must take COSC469.

## The Degree of Professional Master of Engineering Geology (PMEG – 180 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 2018.
- (b) This degree was first offered in 2015.

### 2. Variations

In exceptional circumstances the Amo Matua, Pūtaiao | Executive Dean of Science or delegate may approve a personal programme of study which does not conform to these Regulations.

### 3. The structure of the qualification

A student must complete the following:

- (a) All courses in Schedule C to these Regulations; or
- (b) other 400-level courses approved by the Kaihautū Hōtaka | Programme Director

### 4. Admission to the qualification

A student for the Professional Master of Engineering Geology (PMEG), before enrolling in the degree, must have

- (a) either
  - i. qualified for the award of the Degree of Bachelor of Science majoring in Geology or Earth Sciences with a B Grade Point Average in 300-level courses, comprising at least 90 points in Geology courses, including field courses (GEOL351 or GEOL352 for Te Whare Wānanga o Waitaha | University of Canterbury students);
  - ii. qualified for the award of the Degree of Bachelor of Engineering, majoring in Civil, Environmental, or Natural Resources Engineering; or
  - iii. been admitted with Academic Equivalent Standing; or
  - iv. completed a relevant prior learning/work experience as assessed by the Kaihautū Hōtaka | Programme Director; and
- (b) been approved as a student by the Amo Matua, Pūtaiao | Executive Dean of Science or delegate based on relevance and standard of prior studies; and
- (c) 15 points of MATH 100-level courses and 15 points from STAT 100-level courses.

A student seeking admission may be required to pass a qualifying programme or courses prior to commencing this degree.

### 5. Subjects

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

### 6. Time limits

- (a) This qualification adheres to the General Regulations for the University with a time limit of 36 months. In exceptional circumstances, the Amo Matua, Pūtaiao | Executive Dean of Science or delegate may grant an extension.
- (b) The time limit for completion of the dissertation is 8 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, with the following stipulations:

- (a) This qualification does not allow for any course failures.

## 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) A student who has completed the course work for the PMEG (Regulations 3(a) and 3(b)), may apply to the Amo Matua, Pūtaiao | Executive Dean of Science or delegate to be admitted to the Master of Science (MSc Part II) in Engineering Geology and have credits transferred.
- (b) There is no exit qualification for this degree.

# Schedule C: Compulsory Courses for the Degree of Professional Master of Engineering Geology

For full course information, go to [www.canterbury.ac.nz/courses](http://www.canterbury.ac.nz/courses)

Course Code	Course Title	Pts	2023	Location	P/C/R/RP/EQ
DRRE402	Natural Hazard Risk Assessment	15	T2	Campus	P: Subject to approval of the Programme Director R: HAZM410, ENCI601 RP: 100-level Statistics course
ENGE411	Engineering Construction Practice	15	X	Campus	P: (1) ENGE410 and (2) approval from the Head of School R: ENGE472
ENGE412	Rock Mechanics and Rock Engineering	15	S1	Campus	P: (1) ENCN353 or (2) MATH101 or MATH102 or MATH103 and (3) approval from the Head of School R: ENGE485
ENGE413	Soil Mechanics and Soil Engineering	15	S2	Campus	P: (1) MATH101 or MATH102 or MATH103 and (2) approval from the Head of School R: ENCN253; ENGE485
ENGE414	Applied Hydrogeology	15	T2	Campus	P: (1) MATH101 or MATH102 or MATH103 and (2) approval from the Head of School R: ENGE478

ENGE416	Engineering Geology Synthesis and Project Preparation	15	X	Campus	P: (1) ENGE410 and (2) approval from the Head of School R: ENGE495
ENGE417	Foundations of Engineering Geology	30	T1	Campus	P: Approval by Head of School R: ENGE410, ENGE415, ENGE471, ENGE486 RP: BSc Geology or equivalent
ENGE691	Engineering Geology Project Portfolio	60	X	Campus	P: 120 Points at 400-level including ENGE410, 411, 412, 413, 414, 415, 416 and DRRE402. Substitutions may be made in exceptional circumstances.

## The Degree of Professional Master of Geospatial Science and Technology (PMGST – 180 points)

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

### 1. Version

- These Regulations came into force on 1 January 2018.
- This degree was first offered in 2018.

### 2. Variations

In exceptional circumstances the Amo Matua, Pūtaiao | Executive Dean of Science 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 degree a student must:

- pass courses having a total minimum value of 180 points; and
- satisfactorily complete:
  - All courses from Schedule C;
  - a maximum of 60 points from GISC coded courses in Schedule E: Group 1; and
  - a maximum of 30 points from non-GISC coded courses from Schedule E: Group 2.

### 4. Admission to the Qualification

A student for the Degree of Professional Master of Geospatial Science and Technology, before applying to enrol in the degree, must have:

- qualified for a university degree with at least a B Grade Point Average in 300-level GIS courses; and has completed 30 points of undergraduate GIS course(s), or GISC422 (Foundations of Geographic Information Systems), or an approved equivalent course prior to enrolment;
- been approved as a student for the degree by the Amo Matua, Pūtaiao | Executive Dean of Science 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 36 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 30 points of course failures to qualify for the degree, with the following stipulations:

GEOG693 may not be failed.

## 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

- There are no advancing qualifications for this degree.
- Exit qualifications may include: PGDipGST or PGCertGST.

## Schedule C: Compulsory Courses for the Degree of Professional Master of Geospatial Science and Technology

For full course information, go to [www.canterbury.ac.nz/courses](http://www.canterbury.ac.nz/courses)

### Group 1

Course Code	Course Title	Pts	2023	Location	P/C/R/PP/EQ
GISC402	GI Science Research	15	S2	Campus	P: Entry subject to the approval of the Programme Director RP: GEOG205 or GISC422
GISC404	Spatial Analysis	15	S1	Campus	P: Subject to the approval of the Programme Director RP: GEOG205 or GISC 422, GEOG323
GISC412	Spatial Data Science	15	S2	Campus	P: GISC405, COSC121 or COSC131 or COSC480

### Group 2

Course Code	Course Title	Pts	2023	Location	P/C/R/PP/EQ
GEOG693	Geospatial Science and Technology Project	60	NO		P: GISC402

## Schedule E: Elective Courses for the Degree of Professional Master of Geospatial Science and Technology

Course Code	Course Title	Pts	2023	Location	P/C/R/PP/EQ
COMS408	Communication Ethics	30	S1	Campus	P: Subject to approval of the Head of Department R: COMS422, PHIL469
			S1	Distance Learning	
COSC480	Computer Programming	15	S1	Campus	P: Subject to approval of the Head of Department
			S1	Distance Learning	
			S2	Campus	
			S2	Distance Learning	
DATA401	Statistics	15	NO		P: Subject to approval of the Head of School
FORE642	Advanced IT Applications in Forestry and Natural Resource Management	15	S1	Campus	P: Subject to approval of Head of School R: FORE342