

# 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 Tahua | 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 FIEC601 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 [courseinfo.canterbury.ac.nz](http://courseinfo.canterbury.ac.nz)

Course Code	Course Title	Pts	2025	Location	P/C/R/RP/EQ
COSC480	Computer Programming	15	X1	UC Online	P: Subject to approval of the Head of Department.
			S1	Campus	
			S1	Distance Learning	
			S2	Campus	
			S2	Distance Learning	
			X4	UC Online	
FENG601	Applications of Financial Engineering	45	NO		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	2025	Location	P/C/R/RP/EQ
FINC624	Asset Pricing	15	NO		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