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

** Not open for new enrolments in 2021.*

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 Pūtaiao | Academic Dean of Science 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:

(a) pass courses having a total minimum value of 180 points; and
(b) satisfactorily complete:
    i. GISC 402, GISC 404, GISC 412;
    ii. 15 points from other GISC coded courses;
    iii. 60 points from Schedule E for the programme; and
    iv. a 60 point project (GEOG 693).

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:

(a) qualified for a university degree with at least a B Grade Point Average in 300-level courses in an area which is relevant to Geographic Information Science, e.g., geography, computer science, digital humanities, environmental science, or any other relevant degree subject to approval of the Kaihautū Hōtaka | Programme Director; and has completed 30 points of undergraduate GIS course(s), or GISC 422 (Foundations of Geographic Information Systems), or an approved equivalent course prior to enrolment;
(b) been approved as a student for the degree by the Amo Pūtaiao | Academic Dean of Science.

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:

GEOG 693 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

(a) There are no advancing qualifications for this degree.
(b) 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

Group 1

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
GISC 402	GI Science Research	15	S2	Campus	P: Entry subject to the approval of the Programme Director, GIS. RP: GEOG 205, GISC 401
GISC 404	Spatial Analysis	15	S1	Campus	P: Subject to the approval of the Programme Director, GIS. RP: GEOG 205, GEOG 324
GISC 412	Spatial Data Science	15	S2	Campus	P: GISC 405, COSC 121, COSC 480, or any previous Python programming experience.

Group 2

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
GEOG 693	Geospatial Science and Technology Project	60	SU2	Campus	P: Subject to approval of the Head of School
			X	Campus	

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

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
COMS 408	Communication Ethics	30	S1	Campus	P: Subject to approval of the Head of Department. R: COMS 422, PHIL 469
			S1	Distance Learning	
COSC 480	Computer Programming	15	S1	Campus	P: Subject to approval of the Head of Department
			S2	Campus	
DATA 401	Statistics	15	S1	Campus	P: Subject to approval of the Head of School
			S2	Campus	
			X	Campus	
FORE 642	Advanced IT Applications in Forestry and Natural Resource Management	15	S1	Campus	P: Subject to approval of Head of School R: FORE 342
GEOG 401	Wellbeing, Community and Place	30	S2	Campus	P: Entry subject to approval of the Head of School. R: GEOG 452
GEOG 402	Resilient Cities	30	S1	Campus	P: Entry subject to approval of the Head of School. R: GEOG 446
GEOG 404	Resource and Environmental Management (REM) in New Zealand	30	S2	Campus	P: Entry subject to approval of the Head of School. R: GEOG 444
GEOG 409	Coasts and Rivers: from Natural Processes to Urban Environments	30	S1	Campus	P: Entry subject to approval of the Head of School. R: GEOG 437
GISC 401	Foundations of Geographic Information Science	15	NO		P: Entry subject to the approval of the Programme Director, GIS. RP: GEOG 205 and one other GIS course recommended

GISC 403	Cartography and Geovisualisation	15	NO		P: Entry subject to the approval of the Programme Director, GIS. RP: GEOG 205, GISC 401, GISC 404, GISC 406
GISC 405	GIS Programming and Databases	15	NO		
GISC 406	Remote Sensing for Earth Observation	15	S1	Campus	R: GEOG 407 RP: GEOG 205, GEOG 313
GISC 411	Spatial Analytics for Health	15	S1	Campus	P: Entry is subject to the approval of the Programme Director: GIS. RP: HLTH 462 recommended but not required.
GISC 415	Geographic Information Systems (GIS) Internship	15	S2	Campus	P: Entry is limited to students enrolled in the PGDipGIS and MGIS programmes and subject to the approval of the MGIS Programme Director. R: Subject to the approval of the MGIS Director against normal or previous employment.
GISC 416	Conservation GIS	15	NO		P: GEOG 205 and (GEOG 324 or GEOG 323)
GISC 417	GIS Special Topic	15	NO		P: Entry subject to the approval of the Programme Director
HITD 603	Human Interface Technology - Prototyping and Projects	15	S1	Campus	P: Subject to Approval of the College of Engineering Dean (Academic) R: HITD 601
MBIS 601	Management of Information Systems	15	T1	Campus	P: Subject to approval of the Head of Department
MBIS 602	Systems Analysis and Process Modelling	15	T1	Campus	P: Subject to approval of the Head of Department
MBIS 603	Digital Business and Technology	15	T1	Campus	P: Subject to approval of the Head of Department
MBIS 623	Data Management	15	S1	Campus	P: Subject to approval of the Head of Department
STAT 447	Official Statistics	15	S2	Campus	P: Subject to approval of the Head of School R: STAT 474
STAT 448	Big Data	15	S1	Campus	P: Subject to approval of the Head of School
			S2	Campus	
STAT 462	Data Mining	15	S1	Campus	P: Subject to approval of the Head of School.
			S2	Campus	