Postgraduate Diploma in Geospatial Data Science (PGDipGDS - 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 2025.
- (b) This Diploma was first offered in 2018 as the Postgraduate Diploma in Geospatial Science and Technology.

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 Postgraduate Diploma in Geospatial Data Science a student must:

- (a) have been credited with 120 points of courses selected from the Schedule to the Regulations for the Postgraduate Diploma in Geospatial Data Science including:
 - All Schedule C Courses:
 - A maximum of 60 points from GISC coded courses in Schedule E Group 1;
 - iii. A maximum of 30 points from non-GISC coded courses from Schedule E Group 2 for the programme.

4. Admission to the qualification

A student for the Postgraduate Diploma in Geospatial Data Science, before enrolling for the Diploma, must have:

- qualified for a university degree with at least a B Grade Point Average in 300-level GIS courses; including 30 points of undergraduate GIS course(s), or GISC422 (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 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 24 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 qualification, 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) A student who has completed the requirements for the PGDipGDS but has not yet graduated, may apply to the Amo Matua, Pūtaiao | Executive Dean of Science or delegate to be admitted to the Master of Geospatial Data Science (MGDS) and have credits transferred.
- (b) A student who has graduated with the PGDipGDS from Te Whare Wānanga o Waitaha | University of Canterbury, may apply to the Amo Matua, Pūtaiao | Executive Dean of Science or delegate to be admitted to the Maser of Geospatial Data Science (MGDS) and have their Diploma subsumed in accordance with the General Regulations to the University.

(c) A student who does not complete the points required to qualify for a PGDipGDS may apply to the Amo Matua, Pūtaiao | Executive Dean of Science or delegate to have their credits transferred towards the award of a Postgraduate Certificate in Geospatial Data Science (PGCertGDS).

Schedule C: Compulsory Courses for the Degree of Postgraduate Diploma of Geospatial Data Science

For full course information, go to courseinfo.canterbury.ac.nz

Course Code	Course Title	Pts	2025		P/C/R/RP/EQ
GISC401	Foundations of Geospatial Data Science	15	S1	Campus	P: Entry subject to the approval of the Programme Director. R: GISC101
GISC403	Geovisual Analytics	15	T1	Campus	P: GEOG205 or DIGI205 or GISC422 or equivalent.
GISC404	Spatial Analysis	15	S1	Campus	P: Subject to the approval of the Programme Director. RP: GEOG-DIGI205 or GISC422 or equivalent, GEOG323

Schedule E: Elective Courses for the Degree of Postgraduate Diploma of **Geospatial Data Science**

Group 1

Course Code	Course Title	Pts	2025	Location	P/C/R/RP/EQ
GISC402	Geospatial Data Science Research	15	S2	Campus	P: Entry subject to approval by the Programme Director. RP: 30 points of GISC at 400-level.
GISC405	Environmental and Climate Data Analytics	15	S2	Campus	P: GISC101 or GISC401 or equivalent.
GISC406	Remote Sensing for Earth Observation	15	S1	Campus	P: GEOG205, GEOG208 R: GEOG407
GISC411	Spatial Analytics for Health, Society and Environment	15	NO		P: Entry is subject to the approval of the Programme Director: GIS. RP: HLTH462 recommended but not required.
GISC412	Advanced Methods in Geospatial Data Science	15	S2	Campus	P: GISC401 or COSC121 or COSC480 or equivalent R: GEOG324
GISC417	Geospatial Data Science Special Topic	15	NO		P: Entry subject to the approval of the Programme Director, GISC101/GISC401, GEOG205/DIGI205/GISC422, or equivalent.

Group 2

Course Code	Course Title	Pts	2025	Location	P/C/R/RP/EQ
COMS408	Communication Ethics	30	S1	Campus	P: Subject to approval of the Head of Department. R: COMS422, PHIL469
DATA422	Data Wrangling for Data Science	15	S2	Campus	P: Subject to approval of the Head of Department of Mathematics and Statistics.
			S2	Distance Learning	
FORE642	Advanced Geospatial Science in Forest Monitoring and Management	15	S1	Campus	P: Subject to approval of Head of School. R: FORE342
HITD603	Human Interface Technology - Prototyping and Projects	15	S1	Campus	P: Subject to Approval of the College of Engineering Dean (Academic) R: HITD601
MBIS601	Management of Information Systems	15	S1	Campus	R: INFO243, INFO343
MBIS602	Systems Analysis and Process Modelling	15	S2	Campus	R: INFO223
MBIS603	Digital Business and Technology	15	S1	Campus	R: INFO253
MBIS623	Data Management	15	S1	Campus	R: INFO260
			S1	Distance Learning	
			X2	UC Online	
			S2	Campus	
			X4	UC Online	
STAT448	Big Data	15	S1	Campus	P: Subject to approval of the Head of School
			S1	Distance Learning	
			S2	Campus	
			S2	Distance Learning	
			X4	UC Online	
STAT462	Data Mining	15	S1	Campus	P: Subject to approval of the Head of School.
			S1	Distance Learning	
			X2	UC Online	
			S2	Campus	
			S2	Distance Learning	