The Degree of Master of Applied Data Science (MADS - 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 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 of Master in Applied Data Science a student must complete a total of 180 points including:
(a) Up to 45 points from the Foundation Courses listed in the Schedule to these Regulations.
   i. A student who has completed an undergraduate course equivalent to any of the Foundation Courses may substitute these with other approved courses from Group B with approval from the Dean of Science.
(b) 60 points of courses listed in the Group A courses in the Schedule to these Regulations.
   i. With approval of the Academic Dean of Science a student may substitute one or more of these courses with a more advanced course on the topic.
(c) At least 15 points from Group B courses listed in the Schedule to these Regulations.
(d) DATA 601 Applied Data Science Project.

4. Admission to the qualification
A student for the Degree of Master of Applied Data Science (MADS), before applying to enrol in the degree, must have:
(a) qualified for a university degree in an area which is relevant to data science eg, biological sciences, computer science, digital humanities, economics, environmental science, finance, geography, geology, mathematics, physics, psychology, statistics, or any other relevant degree subject to approval of the Academic Dean of Science; and
(b) passed 90 points in relevant 300-level courses with at least a B Grade Point Average; and
(c) met the prerequisites as specified in the BSc(Hons) or BA(Hons) Regulations in at least one relevant subject to allow enrolment in 400-level courses, or higher, to fulfil the Group B requirements; and
(d) been approved as a student for the degree by the 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, unless an exemption is granted by the Academic Dean of Science, 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:
DATA 601 cannot be repeated if 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. Pathways to other qualifications
(a) There are no advancing qualifications for this degree.
(b) A student who has not met the requirements for the MADS or who wishes to transfer to the Postgraduate Diploma in Applied Data Science may apply to the Academic Dean of Science for admission. Admission will be based on having met the requirements for entry.

Schedule to the Regulations for the Degree of Master of Applied Data Science

For full course information, go to www.canterbury.ac.nz/study/qualifications-and-courses

Foundation Courses: Foundational Data Science Competencies
A student will be required by the Programme Director to enrol in all the foundation courses unless there is evidence of prior learning in the fundamentals of data science:
(a) DATA 401 Statistics (15 points)
(b) COSC 480 Computer Programming (15 points)
(c) MBIS 623 Data Management (15 points).

Group A: Advanced Data Science Competencies
A student will be required to take the following courses. With approval of the Programme Director, other relevant courses can be substituted:
(a) DATA 420 Scalable Computing (15 points)
(b) DIGI 405 Digital Methods (15 points)
(c) STAT 462 Data Mining (15 points)
(d) STAT 448 Big Data (15 points).

Group B: Domain Specific Competencies
400- or 600-level courses in Biological Sciences, Computer Science, Digital Humanities, Economics, Environmental Science, Finance, Geography, Geology, Mathematics, Physics, Psychology, Statistics, or in any other relevant degree subject as approved by the Programme Director and the Head of Department of the relevant department. This group would normally include a course with a specified work integrated learning component.

Data Science Project
DATA 601 Applied Data Science Project (45 points).