

Master of Data Science (MADS) - MDSc New

CRICOS code (International applicants): 0101854

	On-campus	Online
Start:	Semester 1 (February) Semester 2 (July) Semester 3 (November)	Semester 1 (February) Semester 2 (July) Semester 3 (November)
Campus:	Toowoomba	-
Fees:	Commonwealth supported place Domestic full fee paying place International full fee paying place	Commonwealth supported place Domestic full fee paying place International full fee paying place
Standard duration:	2 years full-time, 4 years part-time	

Contact us

Future Australian and New Zealand students	Future International students	Current students
Ask a question Freecall (within Australia): 1800 269 500 Phone (from outside Australia): +61 7 4631 5315 Email: study@usq.edu.au	Ask a question Phone: +61 7 4631 5543 Email: international@usq.edu.au	Ask a question Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email: usq.support@usq.edu.au

Program aims

With the popularity of social media and the wide spread use of de s Us9 New

Australian Qualifications Framework

The Australian Qualifications Framework (AQF) is a single national, comprehensive system of qualifications offered by higher education institutions (including universities), vocational education and training institutions and secondary schools. Each AQF qualification has a set of descriptors which define the type and complexity of knowledge, skills and application of knowledge and skills that a graduate who has been awarded that qualification has attained, and the typical volume of learning associated with that qualification type.

This program is at AQF Qualification Level 09. Graduates at this level will have specialised knowledge and skills for research, and/or professional practice and/or further learning.

The full set of levels criteria and qualification type descriptors can be found by visiting www.aqf.edu.au.

Admission requirements

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Research training track of [SCI8101 Science in Practice](#); [SCI8102 Research Skills](#); [SCI8103 Research Fundamentals and Ethics](#); and 1 approved course; or
Research project track of [MSC8001 Research Project I](#) and [MSC8002 Research Project II](#) or [MSC8003 Industry Based Research Practice I](#) and [MSC8004 Industry Based Research Practice II](#).

Research Project Track

Normally these research project courses are undertaken in the latter stages of candidature. Students must have approval of the Program Director and a Supervisor prior to undertaking this track, which is dependent on the availability of supervisors and resources.

Students may, with approval of the Program Director and acceptance by an appropriate supervisor, elect to replace two or four units of research training courses ([SCI8101 Science in Practice](#), [SCI8102 Research Skills](#), [SCI8103 Research Fundamentals and Ethics](#) and/or one approved course.) with one or two 2-unit research project courses ([MSC8001 Research Project I](#) and [MSC8002 Research Project II](#)).

Students who have completed [STA2300 Data Analysis](#) in their Bachelor's degree will undertake an alternative course to [STA8170 Statistics for Quantitative Researchers](#).



STA8180 Advanced Statistics A **	STA8190 Advanced Statistics B **	
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Footnotes

- ## Online offer only
- * Two unit course
- ** Enrolment in this course is subject to having the correct prerequisites or equivalent.
- @ The CISCO certificate training is only available in ONC mode. Students who seek the certificate should enrol in ONC mode and be able to attend compulsory weekly workshops at Toowoomba campus.

Required time limits

Students have a maximum of six years to complete this program.

Articulation

Students completing the research project track within the Master of Data Science would be eligible to apply for articulation to the [Master of Science \(Research\)](#) or [Doctor of Philosophy](#) programs if they meet other requirements for entry into those programs. Students completing the research training track within the Master of Data Science with the appropriate GPA would be eligible to apply for enrolment in the [Master of Science \(Research\)](#) (Advanced) and then could progress (articulate) to a [Doctor of Philosophy](#) via that route once they have demonstrated satisfactory progress in a significant research component.

Exit points

Students may exit with the [Graduate Diploma of Science](#) (Applied Data Science) on successful completion of at least eight courses within the Master of Data Science if they have satisfied the requirements of a [Graduate Diploma of Science](#) (Applied Data Science). Students may exit with the [Graduate Diploma of Science](#) (General) if they have completed at least eight courses from the Master of Data Science, including four post-graduate courses coded at 5000 level or above.

Students may exit with the [Graduate Certificate of Science](#) (Applied Data Science) on successful completion of at least four courses within the Master of Data Science if they have satisfied the requirements of a [GCSC Graduate Certificate of Science](#) (Applied Data Science). Students may exit with the [Graduate Certificate of Science](#) (General) if they have completed at least four courses from the Master of Data Science, including at least two courses coded at 5000 level or above.

Credit

Exemptions/credit for all specialisations will be assessed according to [USQ procedure](#).

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Enrolment

Recommended Enrolment Pattern - Full-time (4 Semesters, S1 entry)

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.

Students may, with approv

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or							
MSC8003 Industry Based Research Practice I *	2	1			2	1	Pre-requisite: Students must be enrolled in one of the following programs: MSCN or MADS
Year 2 Semester 2							
CSC8600 Advanced ICT Professional Project	2	2			2	2	Pre-requisite: CIS8010 or CIS5310 and Students must be enrolled in one of the following Programs: MCTN or MCOP or MSCN (Applied Data Science) or MADS
Approved Course [^]	2	2			2	2	
Either the following two courses for the Research Training Track							
SCI8101 Science in Practice					2	1,2	
SCI8102 Research Skills					2	1,2	
or one of the following courses for the Research Project Track (if approved instead of Research Training Track)							
MSC8002 Research Project II *	2	2			2	2	Pre-requisite: MSC8001
or							
MSC8004 Industry Based Research Practice II *	2	2			2	2	Pre-requisite: MSC8003

Footnotes

** This course is offered online only in Semester 2, 2020.

[^] For a comprehensive list of Approved Courses, refer to Program Structure Section.

* Two unit course

Recommended Enrolment Pattern - Part-time (8 Semesters, S1 entry)

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.

Students may, with approval of the Program Director and acceptance by an appropriate supervisor, elect to replace two or four units of research training courses ([SCI8101 Science in Practice](#), [SCI8102 Research Skills](#), [SCI8103 Research Fundamentals and Ethics](#) and/or 1 approved course) with one or two 2-unit research project courses ([MSC8001 Research Project I](#) and [MSC8002 Research Project II](#)) or ([MSC8003 Industry Based Research Practice I](#) and [MSC8004 Industry Based Research Practice II](#)).

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Year 1							
CSC8001 Introduction to Data Science and Visualisation	1	1,2			1	1,2	
STA8170 Statistics for Quantitative Researchers	1	1			1	1	Enrolment is not permitted in STA8170 if STA2300 has been previously completed.
CSC1401 Foundation Programming	1	1,2,3			1	1,2,3	
CSC8002 Big Data Management	1	2			1	2	Pre-requisite or Co-requisite: CSC1401 and (STA2300 or STA8170) or equivalent program and statistical knowledge and skills.
Year 2							
CIS8025 Big Data Analytics	2	1			2	1	Enrolment is not permitted in CIS8025 if CIS8701 has been previously completed.

Consult the Handbook on the Web at <http://www.usq.edu.au/handbook/current> for any updates that may occur during the year.
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* Two unit course