

Master of Data Science (MADS) - MDS

CRICOS code (International applicants): 0101854

- Investigate, critically analyse, evaluate and communicate research findings and problem solutions associated with applied data theories and methodologies to specialist and non-specialist audiences.

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

To be eligible for admission, applicants must satisfy the following requirements:

- Completion of an Australian university three year Bachelor degree in any area, or equivalent OR
- A minimum of five years' professional work experience equivalent to a qualification at AQF Level 7.
- English Language Proficiency requirements for Category 2.

All students are required to satisfy the applicable [English language requirements](#).

If students do not meet the English language requirements they may apply to study a University-approved [English language program](#). On successful completion of the English language program, students may be admitted to an award program.

Program fees

Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of a students' higher education and students pay a [student contribution amount](#), which varies depending on the courses undertaken. Students are able to calculate the fees for a particular course via the [Course Fee Schedules](#).

Commonwealth Supported students may be eligible to defer their fees through a Government loan called [HECS-HELP](#).

Domestic full fee paying place

Domestic full fee paying places are funded entirely through the full fees paid by the student. Full fees vary depending on the courses that are taken. Students are able to calculate the fees for a particular course via the [Course Fee Schedule](#)

Domestic full fee paying students may be eligible to defer their fees through a Government loan called [FEE-HELP](#) provided they meet the residency and citizenship requirements.

Australian citizens, Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who will be resident outside Australia for the duration of their program pay full tuition fees and are not eligible for [FEE-Help](#).

International full fee paying place

International students pay full fees. Full fees vary depending on the courses that are taken and whether they are studied on-campus, via distance education/online. Students are able to calculate the fees for a particular course via the [Course Fee Schedules](#).

Program structure

The program consists of 16 units comprising of:

- 12 units of core ICT courses
- 4 units of elective courses (any Postgraduate courses, subject to pre-requisite satisfaction)

Core ICT courses

Courses	Semester of offer Online	Semester of offer Toowoomba campus	Semester of offer Springfield campus
CSC5020 Foundations of Programming	1,2,3	1,2,3	
CIS5310 IS/ICT Project Management	1,2,3	1	1
STA8170 Statistics for Quantitative Researchers	1	1	
CIS8008 Business Intelligence	1,2	1	1
CSC8001 Introduction to Data Science and Visualisation	1,2	1,2	
CSC8002 Big Data Management	2,3	2	2
CSC8003 Machine Learning	2,3	2	
CSC8004 Data Mining	1	1	
STA8005 Multivariate Analysis for High-Dimensional Data*	1	1	
CIS8025 Big Data Visualisation	1,2	1,2	
CIS8500 Applied Research for Information System Professionals	1,2	2	1
CSC8600 Advanced ICT Professional Project	1,2	1,2	

Footnotes

* Unavailable in on-campus mode in 2022

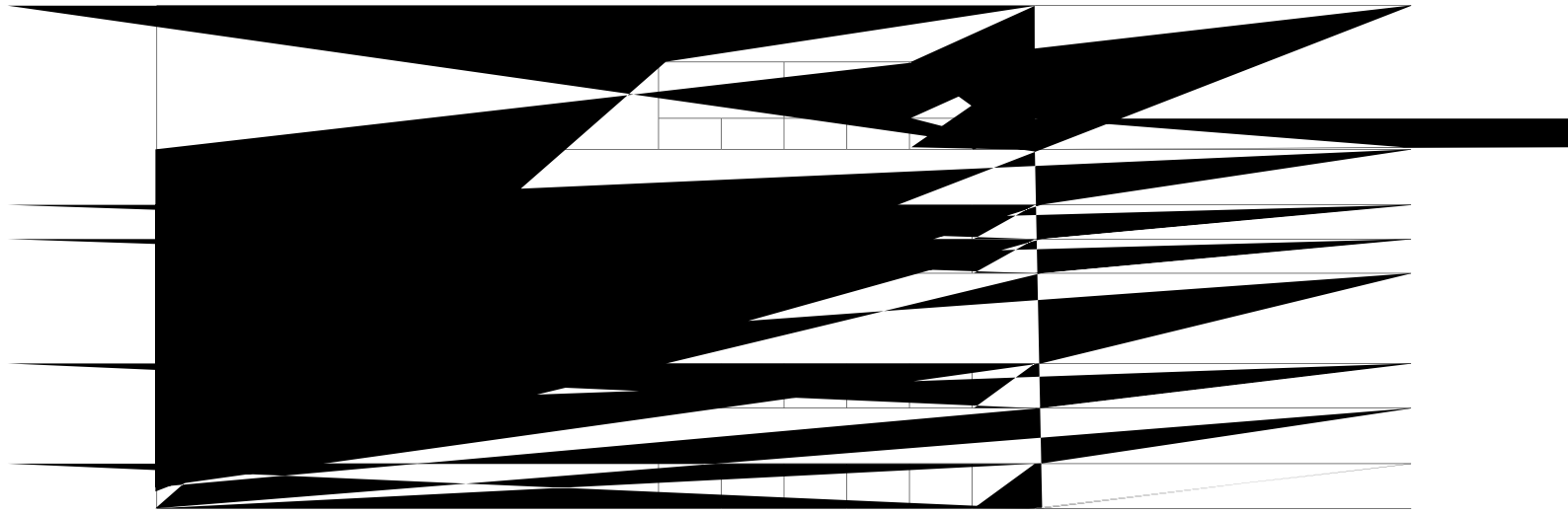
Research

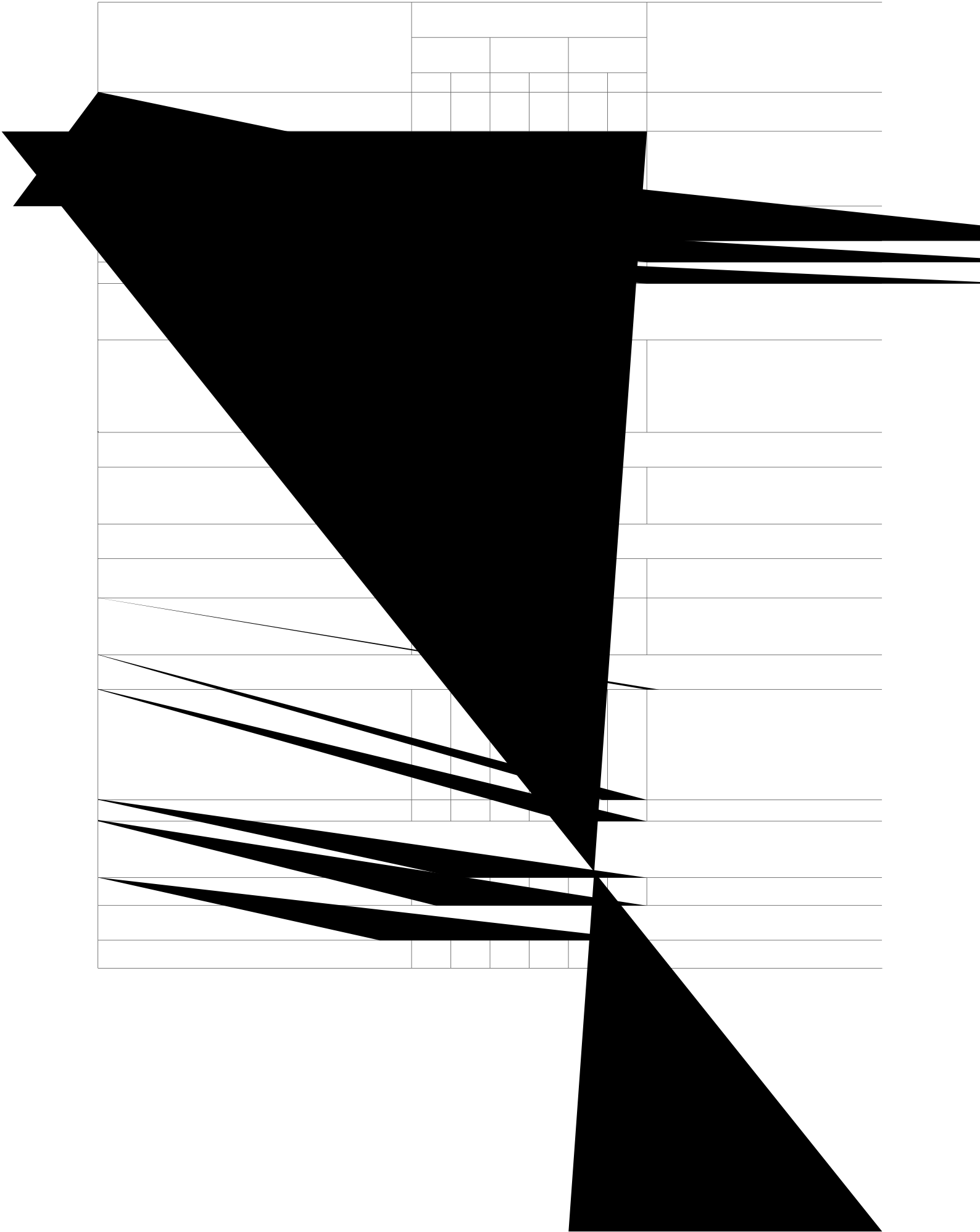
Research dissertation courses as electives

Students wishing to pursue a PhD are encouraged to complete the research dissertation courses below as their electives. 1130.885 184.441 1352.35 3 III3ff302.5 184.441 m302.5 204.542 1378.4 352.33 III3020.885 224.843 17430.885 2

Notes:

- (1) All requests for credits or exemptions need to be sought by the student and approved by the Program Director.
- (2)





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](#)).

International students may not be able to enrol in 4 courses for a full time workload in Semester 3.

