Postgraduate Coursework
MASTER OF DATA SCIENCE

Commencing 2017
Semester: 1
Location
St Lucia
Study Mode
Internal

The first program in Australia to offer an advanced level of computing, mathematics and business skills specifically tailored to data science.

The Master of Data Science is one of the few programs in the world that offers you a cross-disciplinary education with direct industry contact and practical experience in the exciting field of data science. It brings together areas of computing, statistics, mathematics and business to solve big data challenges across business, social, government and health data.

Practical opportunities
Become job-ready to tackle complex data science challenges and play a leading role in the future development of data science solutions globally. Learn from experts integrating world-leading research with relevant big data tools and technologies, to apply creative and disruptive thinking to complex problems.

Career opportunities
As data underpins the digital economy, there are enormous opportunities for data scientists to revolutionise the way we work, live and communicate. Master of Data Science graduates will be expertly prepared to work in Australia or overseas across a large number of industry sectors, government agencies, high technology companies, as well as consulting and market research firms.

UNIVERSITIES AUSTRALIA

UNIVERSITAS 21

GROUP OF EIGHT AUSTRALIA

Master of Data Science

Program code: 5660
CRICOS code: 092454G

Program duration

2 years full-time (4 semesters)

Entry Requirements

Students should have at least a 3-year undergraduate degree with a major in computer science, IT, statistics, mathematics, engineering, or a program with substantial quantitative competencies sufficient to allow timely completion of the program.

English Language Proficiency Requirements

To meet UQ's English Language proficiency requirements, you must demonstrate one of the following:

- A score equivalent to four semesters of Sound Achievement in Queensland Studies Authority English or Australian or international equivalent

- An IELTS overall score of 6.5, with a minimum score of 6 in writing, reading, speaking and listening.

For other English Language Proficiency tests and scores approved for UQ, visit: future-students.uq.edu.au/english-requirements

Further Information

More information about UQ for international students, including fees, how to apply, study environment, estimated living costs, refund policies, support services, information for students with families, and your legal rights as an international student can be found at:

future-students.uq.edu.au

What you can study

Below are some indicative course plans you may choose to follow, depending on your background. An accelerated program will be available for students with adequate study and experience in data science, from 2018 onwards.

For full course lists and more information, please visit: www.uq.edu.au/study

Master of Data Science (#32)
Indicative study plan for students with a computing background.

Year 1	
Semester 1	Semester 2
Introduction to Data Science	Data Privacy: Ethics, Law and Technical Considerations
Mathematics for Data Science 1	Applied Probability and Statistics
Advanced Data Analytics	Mathematics for Data Science 2
Machine Learning	Data Mining

Year 2	
Semester 1	Semester 2
Data Science Project: Propose	Data Science Project: Build
Statistical Methods for Data Science	Computational Models for Data Science
Advanced Techniques in High Dimensional Data	Advanced Statistics

Master of Data Science (#32)
Indicative study plan for students with a mathematics / statistics background.

Year 1	
Semester 1	Semester 2
Introduction to Data Science	Data Privacy: Ethics, Law and Technical Considerations
Database Principles	Advanced Database Systems
Introduction to Software Engineering	Applied Probability and Statistics
Statistical Methods for Data Science	Advanced Statistics

Year 2	
Semester 1	Semester 2
Data Science Project: Propose	Data Science Project: Build
Advanced Data Analytics	Data Mining
Machine Learning	Advanced Topics in Operations Research