The Master of Data Science addresses demand for specialist data scientists to manage and analyse big data accumulating from sources such as social media, sensors, mobile and transaction data.

The Master of Data Science program will prepare graduates for a career in data science, an emerging area driving economic growth, public policy and corporate strategy through management of very large collections of data to derive insights that ultimately benefit society.

As a student you will acquire a range of in-depth skills in data science by combining computer science and data analytics.

The program has opportunities to undertake an internship in industry.

You will undertake a capstone project that will provide you with hands-on practical experience analysing data in a project environment. The emphasis is on understanding and working within a corporate environment and integrating all the skills and knowledge that you have acquired from your previous courses into a solid base to progress from into your professional life.

Learning and teaching
RMIT is committed to providing students with an education that strongly links formal learning with workplace experience.

You will learn through a broad mix of study modes including lectures, tutorials, practical classes, project work and seminars using face-to-face, online and other flexible delivery mechanisms.

Industry connections
The program has substantial links with the ICT industry both within Australia and internationally. Employers and industry professionals with data science expertise are members of our Industry Advisory Committee and have contributed to the initial development and ongoing improvement of the program. Their involvement ensures that the program remains relevant to your needs as a graduate and the needs of graduate employers.

Career outlook
The emerging growth field of data science requires professionals with advanced knowledge and skills.

Job titles for data scientists are diverse and include; analytics specialist, business intelligence analyst, business intelligence developer, data analyst, data architect, data engineer, data miner, data scientist, research scientist, web analyst.

Professional recognition
Students and graduates can join the Institute of Analytics Professionals of Australia (IAPA). IAPA is the professional organisation for the analytics industry in Australia, incorporating business analytics and data mining across multiple disciplines and sectors.
## Master of Data Science

### Program structure

#### Year 1

**Complete the following six courses:**
- Practical Data Science
- Programming Fundamentals
- Database Concepts
- Introduction to Statistics
- Introduction to Statistical Computing
- Advanced Programming

**AND**

**Select and complete two of the following courses:**
- Analysis of Large Data Sets
- Big Data Infrastructures
- Data Visualisation and Communication
- Legal, Ethical and Policy Issues in Data Science

#### Year 2

**Select and complete two of the following courses not previously completed:**
- Analysis of Large Data Sets
- Big Data Infrastructures
- Data Visualisation and Communication
- Legal, Ethical and Policy Issues in Data Science

**AND**

**Complete the following one course:**
- Data Science Postgraduate Project

**AND**

**Select and complete four of the following program option courses:**
- Algorithms and Analysis
- Analysis of Categorical Data
- Applied Bayesian Statistics
- Big Data Processing
- Data Mining
- Database Systems
- Data Visualisation
- Forecasting
- Knowledge and Data Warehousing
- Information Retrieval
- Multivariate Analysis Techniques
- Regression Analysis
- Social Media and Networks Analytics
- Time Series Analysis.

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### How to apply

Direct to RMIT University:

**Application dates Semester 1, 2017**
- Applications open 14 August 2016
- Timely applications close 10 November 2016

**Semester 2, 2017**
- Applications open 1 May 2017
- Timely applications close 31 May 2017

Late applications will continue to be accepted after this date if places are still available.

### Entry requirements

An Australian bachelor degree or equivalent from a recognised tertiary institution with a minimum credit average that equates to a grade point average (GPA) of 2.0 (GMAT 560) in computing, science, engineering or health.

International qualifications are assessed according to the Australian Qualifications Framework (AQF).

**Scholarships**

RMIT awards more than 2000 scholarships every year to recognise academic achievement and assist students from a variety of backgrounds. Learn more about RMIT Scholarships.

### Pathways

The GD202 Graduate Diploma in Data Science is available if you choose to exit the Master’s program after 96 credit points.

Students who have successfully completed BP094 Bachelor of Computer Science or BP096 Bachelor of Software Engineering degree from RMIT University will be granted 48 credit points of advanced standing (in particular exemptions will normally granted for Database Concepts, Programming Fundamentals, Advanced Programming, and Algorithms and Analysis). For all other students, advanced standing and exemptions will be determined on a case-by-case basis.

### Fees

**2017 indicative fees**

The annual tuition fee for full-fee places in 2017 is AU$24,000.

This program is offered on a full-fee paying basis only. If you are offered a place, you will need to pay the full tuition costs of your program. However, eligible students (such as Australian citizens or holders of an Australian permanent humanitarian visa) may apply to defer payment of some or all of their tuition fees via the Commonwealth Government’s FEE-HELP loan scheme.

Fees shown above apply to 2017 only and are based on an annual full-time study load of 96 credit points unless otherwise noted. A proportionate fee applies for more or less than the full-time study load. Tuition fees are adjusted on an annual basis and these fees should only be used as a guide.

For more information and to learn how to calculate your exact tuition fees see:

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This information is designed for Australian and New Zealand citizens and permanent residents of Australia.

Disclaimer: Every effort has been made to ensure the information contained in this publication is accurate and current at the date of printing. For the most up-to-date information, please refer to the RMIT University website before lodging your application. Visit [www.rmit.edu.au](http://www.rmit.edu.au)