With data-driven decisions now a fundamental part of business operations, this program provides you with the platform to be a business-ready problem solver.

The program allows you to choose from a diverse range of electives combined with a core of statistics and operations research.

With only six core courses, the program’s flexibility allows you to specialise in computer science, economics, finance, logistics or marketing or gain a broader understanding of all fields.

Consulting and work-integrated learning are a major focus of the program and exposure to industry projects provide you with hands-on examples and develops your analytic capabilities.

Learning and teaching

Offered through a flexible combination of lectures, tutorials and computer laboratory sessions, this program also offers opportunities for teamwork projects and to be engaged in consulting activities.

The program covers the fundamentals of statistics and computer programming and all the important tools including SQL, SAS Enterprise Guide, SAS Enterprise Miner, R, Python, Java, Julia, CPLEX, Gurobi and Arena, as identified by our industry partners.

This program is delivered through a mixture of lectures, practicals, online materials, computer lab sessions, individual and group projects. A lot of importance is placed on work-integrated learning and all analytics students have a capstone experience with our industry partners, working on real data.

Industry connections

The program focuses on providing you with consulting experience and work-integrated learning.

Recent international placements include:
- Bosch Corporation, Japan
- Continental, Germany
- Siemens, Germany.

All analytics students have a capstone experience with our industry partners, working on real data. You’ll do industry projects and develop your analytical capabilities by solving problems hands-on.

Career outlook

Graduates are employed by a variety of scientific, commercial and government enterprises, most commonly as data scientists, statisticians, business analysts, consultants, modellers and researchers.

Analytics enables people to make significant contributions to the success of their organisations, which provides a rewarding and valued career path.

Professional recognition

Graduates can apply for membership of these organisations:
- Statistical Society of Australia Inc. (SSAI)
- Australian Society for Operations Research (ASOR)
- American Statistical Association (ASA)
- Institute for Operations Research and the Management Sciences (INFORMS)
- Institute of Analytics Professionals of Australia (IAPA).
The Master of Analytics Program is structured as follows:

Classes are usually held once a week in the evening over a two-hour period.

You’ll complete core studies in analytics, statistics and operations research and can choose from a diverse range of electives.

**Year 1**

**Complete the following core courses:**
- Essential Mathematics
- Mathematical Modelling and Decision Analysis
- Introduction to Statistical Computing
- Introduction to Statistics
- Database Concepts.

**And complete at least one of the following:**
- Data Visualisation
- Applied Bayesian Statistics
- Analysis of Categorical Data
- Design and Analysis of Experiments
- Forecasting
- Multivariate Analysis Techniques
- Regression Analysis
- Statistical Inference
- Statistics of Quality Control and Performance Analysis
- Stochastic Processes and Applications
- Time Series Analysis
- Analysis of Large Data Sets
- Game Theory and its Applications
- Methods and Models of Operations Research
- Questionnaire and Research Design
- Systems Simulation
- System Dynamics
- Sports Analytics
- Machine Learning.

**And complete at most two of the following courses:**
- Accounting for Management Decisions
- Corporate Finance
- Fixed Income Securities and Credit Analysis
- Financial Decision Making
- Options, Futures and Risk Management
- Scripting Language Programming
- Artificial Intelligence
- Intelligent Web Systems
- Programming Techniques
- Algorithms and Analysis
- Advanced Programming
- Data Mining
- Advanced Programming Techniques
- Database Systems
- Programming Fundamentals
- Big Data Infrastructures
- Big Data Processing
- Data Visualisation and Communication
- Legal, Ethical and Policy Issues in Data Science
- Practical Data Science
- Social Media and Networks Analytics
- Quantitative Methods in Finance
- Economic Analysis for Business
- Financial Econometrics
- Econometric Techniques
- GIS Fundamentals
- GIS Principles
- Advanced GIS
- GIS Analytics
- Digital Risk Management and Information Security
- Digital Strategy
- Business Intelligence
- Introduction to Information Security
- Case Studies in Information Security
- Information Theory for Secure Communications
- eProcurement and Supply Chain Technologies
- eBusiness Models and Issues
- Information Systems Risk Management
- Decision Support Systems
- Knowledge and Data Warehousing
- Information Retrieval
- Globalisation and Business IT
- Business Systems Analysis and Design
- Enterprise Systems
- Risk Management and Feasibility
- Engineering Economic Strategy
- Planning and Control
- Industrial Systems and Environment
- Measurement and Improvement
- Project Management
- Marketing Management
- Consumer Behaviour
- Interactive Marketing
- Services Marketing
- Business to Business Marketing
- Supply Chain Principles
- Supply Chain Modelling & Design
- Supply Chain Sustainability
- Strategic Operations and Supply Chain Management
- eBusiness Supply Chains
- Distribution and Freight Logistics.
Year 2

Complete the following core course:
- Applied Research Project

And complete at least 60 credit points from the following courses:
- Data Visualisation
- Applied Bayesian Statistics
- Analysis of Categorical Data
- Design and Analysis of Experiments
- Forecasting
- Multivariate Analysis Techniques
- Regression Analysis
- Statistical Inference
- Statistics of Quality Control and Performance Analysis
- Stochastic Processes and Applications
- Time Series Analysis
- Analysis of Large Data Sets
- Game Theory and its Applications
- Methods and Models of Operations Research
- Minor Thesis
- Questionnaire and Research Design
- Systems Simulation
- System Dynamics
- Sports Analytics
- Machine Learning.

And complete at most two of the following courses:
- Accounting for Management Decisions
- Corporate Finance
- Fixed Income Securities and Credit Analysis
- Financial Decision Making
- Options, Futures and Risk Management
- Scripting Language Programming
- Artificial Intelligence
- Intelligent Web Systems
- Programming Techniques
Master of Analytics

Fees (indicative)

2017 indicative fees
The annual tuition fee for full-fee places in 2017 is AU$22,080 per annum.

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 cost 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: rmit.edu.au/programs/fees/postgraduate

Credit and exemptions
If you have successfully completed one of the following qualifications majoring in analytics, statistics, operations research or a relevant discipline you will be eligible for exemptions as follows:

<table>
<thead>
<tr>
<th>Qualification level</th>
<th>Exemptions</th>
<th>Remaining program duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor degree</td>
<td>Up to 48 credit points (equivalent to one semester of full-time study)</td>
<td>144 credit points (equivalent to three semesters of full-time study) or more</td>
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<tr>
<td>Graduate Certificate</td>
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<tr>
<td>(AQF Level 7 or equivalent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor degree (honours)</td>
<td>Up to 96 credit points (equivalent to two semesters of full-time study)</td>
<td>96 credit points (equivalent to two semesters of full-time study) or more</td>
</tr>
<tr>
<td>Graduate Diploma</td>
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<tr>
<td>Master PhD</td>
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<tr>
<td>(AQF Level 8 or higher)</td>
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</tbody>
</table>

If you have successfully completed one of the following qualifications majoring in economics, finance, logistics, marketing, supply chain management, engineering (management), information technologies, information security, computer science, geospatial science or a relevant discipline you may be eligible for exemptions as follows:

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</tr>
</tbody>
</table>

How to apply

Direct to RMIT University:
rmit.edu.au/programs/apply/direct

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

A bachelor degree.
OR
At least 10 years of relevant work experience.

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

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

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