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Bachelor of Data Science - Plan BP340P23

Apply Enquire

You're viewing program information for local students.

RMIT considers you a local student if you are:

- a citizen or permanent resident of Australia, or
- a New Zealand citizen, or

- a person seeking asylum who holds either a: Temporary Protection Visa (TPV), or Safe Haven Enterprise Visa (SHEV) or Bridging Visa E or Humanitarian Stay (Temporary) visa or Temporary Humanitarian Concern Visa.

Asylum seekers who reside in Australia and study onshore are required to pay international onshore tuition fees for higher education courses.

If you are unsure or hold a different visa type, please contact Study@RMIT for more information.

Not a local student?

Switch to international content

You're viewing program information for international students.

RMIT considers you an international student if you are:

- intending to study on a student visa, or
- not a citizen or permanent resident of Australia, or
- not a New Zealand citizen, or
- not a a person seeking asylum who holds either a: Temporary Protection Visa (TPV), or Safe Haven Enterprise Visa (SHEV) or Bridging Visa E or Humanitarian Stay (Temporary) visa or Temporary Humanitarian Concern Visa.

If you are unsure or hold a different visa type, please contact Study@RMIT for more information.

Not an international student?

Switch to local content

Student type:

Domestic

International

Entry score:

ATAR 76.60*

Duration:

Full-time 3 years

Part-time 6 years

Fees:

Commonwealth Supported Places

Next intake:

February, July

Location:

Melbourne City

Entry score:

See admissions

Duration:

Full-time 3 years

Fees:

AU$43,200 (2026 annual)

Next intake:

February, July

Location:

Melbourne City

- Bachelor of Data Science - Apply
- Bachelor of Data Science - Plan BP340P23

CRICOS code: 110801G

To graduate you must complete the following. All courses listed may not be available each semester.

You must complete a total of 288 credit points (i.e.: Twenty 12 credit point courses and Two 24 credit point courses) as follows:

- One (1) STEM Future Technology Skills Course (12 credit points); and
- Thirteen (13) Core courses including one (1) 24 credit point course and twelve (12) 12 credit point courses (totalling 168 credit points); and
- One (1) Capstone course (12 credit points); and
- 96 credit points (e.g. eight 12 credit point Data Science Option courses) from one of the following possible Combinations:

Combination 1: Complete Eight (8) courses from one of the Data Science Majors listed below; or
Combination 2: Complete Four (4) courses from two Minors in the minor lists below (one minor must be from the Data Science Minors list); or
Combination 3: Complete Four (4) courses from one of the Data Science Minors AND Four (4) Data Science Option Courses; or
Combination 4: Complete Four (4) courses from one of the Data Science Minors AND up to 48 credit points of University Electives; or
Combination 5: Complete Four (4) Data Science Option Courses AND University Electives up to 48 credit points.

Data Science Option courses mean all courses listed within each Data Science Majors and Data Science Minors.

University Electives can include any Data Science Option course, or any other course on the University Electives website.

Rules on completion of Majors/Minors:
A major is typically 96 credit points, and a minor is typically 48 credit points.
A maximum of Two (2) Minors can be completed in this program.
Please note, a course can only be counted once in your program:

Any course completed as part of the core courses in the program, including where you are given a choice of core option courses, cannot count towards the completion of a major or minor.
If you use a course toward the completion of a minor, you cannot use that same course again to count toward another minor.

The Data Science Major and Minor courses and cross-disciplinary Minor courses can be found at the end of the program structure. The courses in each Major and Minor need to be completed in the sequence listed.

Year One of Program

Students must complete a series of compulsory onboarding modules during their first semester or study period. Complete 96 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Python Programming Bootcamp	12	COSC3103	City Campus
Python Programming Studio	24	COSC3106	City Campus
Practical Statistics	12	MATH2412	City Campus
Foundations of Artificial Intelligence	12	COSC2960	City Campus
Practical Data Science	12	COSC2738	City Campus
Advanced Programming for Data Science	12	COSC2815	City Campus
Introduction to Cyber Security	12	INTE2625	City Campus

AND

Year Two of Program

Complete 60 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Data Visualisation with R	12	MATH2237	City Campus
The Data Science Professional	12	COSC2818	City Campus
Big Data Processing	12	COSC2633	City Campus
Case Studies in Data Science	12	COSC2816	City Campus
Software Engineering Project Management	12	ISYS1108	City Campus

AND*Complete 36 credit points from your Selected Combination.*

AND

Year Three of Program

Complete 36 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Data Science Project	12	COSC3043	City Campus
Machine Learning	12	COSC2673	City Campus
Data Mining	12	COSC2110	City Campus

AND*Complete 60 credit points from your Selected Combination.*

AND

Major: Advanced Data Science

Complete 96 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Algorithms and Analysis	12	COSC2123	City Campus
Software Engineering Fundamentals for IT	12	ISYS3413	City Campus
Database Applications	12	ISYS1102	City Campus
Social Media and Networks Analytics	12	COSC3047	City Campus
Managing Semi-structured and Unstructured Data	12	ISYS1079	City Campus
Artificial Intelligence	12	COSC1127	City Campus
Operating Systems Principles	12	COSC1114	City Campus
Deep Learning	12	COSC2972	City Campus

AND

Major: Cyber Security

Complete 96 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Data Communication and Net-Centric Computing	12	COSC1111	City Campus
Security in Computing and Information Technology	12	COSC2536	City Campus
Security Testing	12	INTE2547	City Campus
Introduction to Cybersecurity Governance	12	INTE2584	City Campus
Cyber Security Attack Analysis and Incidence Response	12	INTE2626	City Campus
Secure Electronic Commerce	12	INTE1071	City Campus
Cloud Security	12	INTE2402	City Campus
Blockchain Technology Fundamentals	12	INTE2627	City Campus
Computer and Internet Forensics	12	COSC2301	City Campus

AND

Major: Enterprise Systems Development

Complete 96 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Further Programming	12	COSC2391	City Campus
Algorithms and Analysis	12	COSC2123	City Campus
Full Stack Development	12	COSC2758	City Campus
Software Testing	12	ISYS1087	City Campus
Database Applications	12	ISYS1102	City Campus
Web Development Technologies	12	COSC2276	City Campus
iPhone Software Engineering	12	COSC2471	City Campus
Rapid Application Development	12	COSC2675	City Campus
Software Engineering: Process and Tools	12	COSC2299	City Campus
Programming Internet of Things	12	COSC2674	City Campus
Enterprise Application Development 1	12	COSC3091	City Campus
Mobile Application Development	12	COSC2309	City Campus

AND

Minor: Artificial Intelligence & Machine Learning

Complete 48 credit points from the following (that have not already been completed as Core Courses):

Course Title	Credit Points	Course Code	Campus
Artificial Intelligence	12	COSC1127	City Campus
Games and Artificial Intelligence Techniques	12	COSC2527	City Campus
Machine Learning	12	COSC2673	City Campus
Deep Learning	12	COSC2972	City Campus
Programming Autonomous Robots	12	COSC2814	City Campus

AND

Minor: Blockchain Technologies

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Blockchain Technology Fundamentals	12	INTE2627	City Campus
Developing Blockchain Applications	12	INTE2628	City Campus
Frontiers of the Digital Economy	12	ECON1349	City Campus
Blockchain Innovations and Case Studies	12	INTE2629	City Campus

AND

Minor: Cloud Computing

Complete 48 credit points from the following (that have not been completed as Core Courses):

Course Title	Credit Points	Course Code	Campus
Cloud Foundations	12	COSC2757	City Campus
Cloud Developing	12	COSC2821	City Campus
Cloud Operations	12	COSC2824	City Campus
Cloud Architecting	12	COSC2829	City Campus
Cloud Security	12	INTE2402	City Campus

AND

Minor: Creative Computing

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Games Studio 1	12	COSC2348	City Campus
Mixed Reality	12	COSC2476	City Campus
Interactive 3D Graphics and Animation	12	COSC1187	City Campus
Games and Artificial Intelligence Techniques	12	COSC2527	City Campus

AND

Minor: Cyber Assurance

Complete 48 credit points from the following (that have not already been completed as Core Courses):

Course Title	Credit Points	Course Code	Campus
Data Communication and Net-Centric Computing	12	COSC1111	City Campus
Security in Computing and Information Technology	12	COSC2536	City Campus
Security Testing	12	INTE2547	City Campus
Cyber Security Attack Analysis and Incidence Response	12	INTE2626	City Campus
Cloud Security	12	INTE2402	City Campus
Computer and Internet Forensics	12	COSC2301	City Campus

AND

Minor: Design & Develop for Apple Platform

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
UI and UX for Apple Platform	12	COSC3099	City Campus
Getting Started with iOS App Development	12	COSC3100	City Campus
Human-Centred Development with Apple Platform Technologies	12	COSC3101	City Campus
Apple Platform Project	12	COSC3102	City Campus

AND

Minor: Enterprise Systems Development

Complete 12 credit points from the following. (Note: students who do not complete 'Full Stack Development' as a Core Course in their program must complete it to successfully complete this minor.)

Course Title	Credit Points	Course Code	Campus
Further Programming	12	COSC2391	City Campus

AND*Complete 36 credit points from the following (that have not already been completed as Core Courses):*

Course Title	Credit Points	Course Code	Campus
Full Stack Development	12	COSC2758	City Campus
Software Testing	12	ISYS1087	City Campus
Database Applications	12	ISYS1102	City Campus
Web Development Technologies	12	COSC2276	City Campus
iPhone Software Engineering	12	COSC2471	City Campus

Rapid Application Development	12	COSC2675	City Campus
Software Engineering: Process and Tools	12	COSC2299	City Campus
Programming Internet of Things	12	COSC2674	City Campus
Algorithms and Analysis	12	COSC2123	City Campus
Enterprise Application Development 1	12	COSC3091	City Campus
Mobile Application Development	12	COSC2309	City Campus

AND

Cross-disciplinary Minors:

List of Minors:

AND

Minor: Bioinformatics

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Cell Biology and Biochemistry	12	BIOL2146	City Campus
Genetics and Molecular Biology	12	BIOL2262	City Campus
Computational Biology	12	BIOL2526	City Campus
Systems Biology	12	BIOL2512	City Campus

AND

Minor: Data Analysis

Complete 36 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Linear Models and Experimental Design	12	MATH2203	City Campus
Multivariate Analysis	12	MATH2142	City Campus
Optimisation for Decision Making	12	MATH2055	City Campus

AND*Complete 12 credit points from the following:*

Course Title	Credit Points	Course Code	Campus
Applied Bayesian Statistics	12	MATH2305	City Campus
Analysis of Categorical Data	12	MATH2300	City Campus
Time Series and Forecasting	12	MATH2204	City Campus

AND

Minor: Digital Innovation

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Foundations of Artificial Intelligence	12	COSC2960	City Campus
Mixed Reality Technologies	12	INTE2686	City Campus
Digital Fluency	12	INTE2687	City Campus
Digital Innovation Project	12	INTE2688	City Campus

Acknowledgement of Country

RMIT University acknowledges the people of the Woi wurrung and Boon wurrung language groups of the eastern Kulin Nation on whose unceded lands we conduct the business of the University. RMIT University respectfully acknowledges their Ancestors and Elders, past and present. RMIT also acknowledges the Traditional Custodians and their Ancestors of the lands and waters across Australia where we conduct our business - Artwork 'Sentient' by Hollie Johnson, Gunaikurnai and Monero Ngarigo.

Life at RMIT

- Study experience
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- Global opportunities
- Industry connections

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