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Bachelor of Software Engineering (Professional) - Plan BP096P25

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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 82.00*

Duration:

Full-time 4 years

Fees:

Commonwealth Supported Places

Next intake:

February, July

Location:

Melbourne City

Entry score:

See admissions

Duration:

Full-time 4 years

Fees:

AU\$43,200 (2026 annual)

Next intake:

February, July

Location:

Melbourne City

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

You must complete a total of 384 credit points (i.e.: Twenty two 12 credit point courses, Two 24 credit point courses, and two 36 credit point courses) as follows:

Two (2) STEM Future Technology Skills courses (24 credit points); and

Fourteen (14) Core courses comprising two 24CP-courses and ten 12CP-courses (totalling 192 credit points); and

One (1) Capstone course (24 credit points);

96 credit points comprising internship courses, and

48 credit points (e.g. four 12 credit point Software Engineering Option courses) from one of the following possible Combinations:

Combination 1: Complete Four (4) courses from one of the Software Engineering Minors; or

Combination 2: Complete Four (4) Software Engineering Option Courses; or

Combination 3: Complete 48 credit points of University Electives.

Software Engineering Option courses mean all courses listed within each Software Engineering Minor.

University Electives can include any Software Engineering Option course, or any other course on the University Electives website.

Rules on completion of Minors:

A minor is typically 48 credit points.

A maximum of one (1) Minor 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 minor.

The Software Engineering Minor courses and cross-disciplinary Minor courses can be found at the end of the program structure. The courses in each 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
Java Programming Bootcamp	12	COSC2801	City Campus
Java Programming Studio	24	COSC2803	City Campus
Introduction to Mathematics for Computing	12	MATH2466	City Campus
Mathematics for Computing 1	12	MATH2411	City Campus
C++ Programming Bootcamp	12	COSC2802	City Campus
C++ Programming Studio	24	COSC2804	City Campus

AND

Year Two of Program

Complete 96 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Introduction to Cyber Security	12	INTE2625	City Campus
Full Stack Development	12	COSC2758	City Campus
Software Engineering Fundamentals	12	ISYS1118	City Campus
Algorithms and Analysis	12	COSC2123	City Campus
Software Requirements Engineering	12	COSC2274	City Campus
Software Engineering: Process and Tools	12	COSC2299	City Campus
Systems Architecture and Design	12	ISYS3459	City Campus
Software Testing	12	ISYS1087	City Campus

AND

Year Three of Program

Complete 96 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Industry Experience 2a	24	INTE2697	City Campus
Industry Experience Reflection 1	12	INTE2374	City Campus

Foundations of Artificial Intelligence	12	COSC2960	City Campus
Industry Experience 2b	24	INTE2698	City Campus
Industry Experience Reflection 2	12	INTE2375	City Campus
Innovation Ecosystem and the Future of Work	12	OENG1235	City Campus

AND

Year Four of Program

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Computing Theory	12	COSC1107	City Campus
Software Engineering Project	24	COSC2410	City Campus
Operating Systems Principles	12	COSC1114	City Campus

AND Complete 48 credit points from your Selected Combination.

AND

Software Engineering Minors:

List of Minors:

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
Managing Semi-structured and Unstructured Data	12	ISYS1079	City Campus
Social Media and Networks Analytics	12	COSC3047	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
Digital Economy and Blockchain Applications	12	INTE2554	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 Computing	12	COSC2626	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
Games Studio 2	12	COSC2349	City Campus
Mixed Reality	12	COSC2476	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: Data Science

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
Practical Data Science	12	COSC2738	City Campus
Advanced Programming for Data Science	12	COSC2815	City Campus
Data Visualisation with R	12	MATH2237	City Campus
Practical Statistics	12	MATH2412	City Campus
Case Studies in Data Science	12	COSC2816	City Campus
The Data Science Professional	12	COSC2818	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
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.

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