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## Bachelor of Software Engineering (Professional) - Plan BP096P25

[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](mailto: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 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](mailto: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
<a href="#">Java Programming Bootcamp</a>	12	COSC2801	City Campus
<a href="#">Java Programming Studio</a>	24	COSC2803	City Campus
<a href="#">Introduction to Mathematics for Computing</a>	12	MATH2466	City Campus
<a href="#">Mathematics for Computing 1</a>	12	MATH2411	City Campus
<a href="#">C++ Programming Bootcamp</a>	12	COSC2802	City Campus
<a href="#">C++ Programming Studio</a>	24	COSC2804	City Campus

AND

#### Year Two of Program

*Complete 96 credit points from the following:*

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

AND

#### Year Three of Program

*Complete 96 credit points from the following:*

Course Title	Credit Points	Course Code	Campus
<a href="#">Industry Experience 2a</a>	24	INTE2697	City Campus
<a href="#">Industry Experience Reflection</a>	12	INTE2374	City Campus

<a href="#"><u>Foundations of Artificial Intelligence</u></a>	12	COSC2960	City Campus
Industry Experience 2b	24	INTE2698	City Campus
<a href="#"><u>Industry Experience Reflection 2</u></a>	12	INTE2375	City Campus
<a href="#"><u>Innovation Ecosystem and the Future of Work</u></a>	12	OENG1235	City Campus

AND

Year Four of Program

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
<a href="#"><u>Computing Theory</u></a>	12	COSC1107	City Campus
<a href="#"><u>Software Engineering Project</u></a>	24	COSC2410	City Campus
<a href="#"><u>Operating Systems Principles</u></a>	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
<a href="#"><u>Artificial Intelligence</u></a>	12	COSC1127	City Campus
<a href="#"><u>Games and Artificial Intelligence Techniques</u></a>	12	COSC2527	City Campus
<a href="#"><u>Machine Learning</u></a>	12	COSC2673	City Campus
<a href="#"><u>Deep Learning</u></a>	12	COSC2972	City Campus
<a href="#"><u>Managing Semi-structured and Unstructured Data</u></a>	12	ISYS1079	City Campus
<a href="#"><u>Social Media and Networks Analytics</u></a>	12	COSC3047	City Campus
<a href="#"><u>Programming Autonomous Robots</u></a>	12	COSC2814	City Campus

AND

Minor: Blockchain Technologies

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
<a href="#"><u>Blockchain Technology Fundamentals</u></a>	12	INTE2627	City Campus
<a href="#"><u>Developing Blockchain Applications</u></a>	12	INTE2628	City Campus
<a href="#"><u>Frontiers of the Digital Economy</u></a>	12	ECON1349	City Campus
<a href="#"><u>Digital Economy and Blockchain Applications</u></a>	12	INTE2554	City Campus
<a href="#"><u>Blockchain Innovations and Case Studies</u></a>	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
<a href="#"><u>Cloud Foundations</u></a>	12	COSC2757	City Campus
<a href="#"><u>Cloud Developing</u></a>	12	COSC2821	City Campus
<a href="#"><u>Cloud Operations</u></a>	12	COSC2824	City Campus
<a href="#"><u>Cloud Computing</u></a>	12	COSC2626	City Campus
<a href="#"><u>Cloud Architecting</u></a>	12	COSC2829	City Campus
<a href="#"><u>Cloud Security</u></a>	12	INTE2402	City Campus

AND

Minor: Creative Computing

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
<a href="#"><u>Games Studio 1</u></a>	12	COSC2348	City Campus
<a href="#"><u>Games Studio 2</u></a>	12	COSC2349	City Campus
<a href="#"><u>Mixed Reality</u></a>	12	COSC2476	City Campus
<a href="#"><u>Games and Artificial Intelligence Techniques</u></a>	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
<a href="#">Data Communication and Net-Centric Computing</a>	12	COSC1111	City Campus
<a href="#">Security in Computing and Information Technology</a>	12	COSC2536	City Campus
<a href="#">Security Testing</a>	12	INTE2547	City Campus
<a href="#">Cyber Security Attack Analysis and Incidence Response</a>	12	INTE2626	City Campus
<a href="#">Cloud Security</a>	12	INTE2402	City Campus
<a href="#">Computer and Internet Forensics</a>	12	COSC2301	City Campus

AND

Minor: Data Science

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
<a href="#">Practical Data Science</a>	12	COSC2738	City Campus
<a href="#">Advanced Programming for Data Science</a>	12	COSC2815	City Campus
<a href="#">Data Visualisation with R</a>	12	MATH2237	City Campus
<a href="#">Practical Statistics</a>	12	MATH2412	City Campus
<a href="#">Case Studies in Data Science</a>	12	COSC2816	City Campus
<a href="#">The Data Science Professional</a>	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
<a href="#">UI and UX for Apple Platform</a>	12	COSC3099	City Campus
<a href="#">Getting Started with iOS App Development</a>	12	COSC3100	City Campus
<a href="#">Human-Centred Development with Apple Platform Technologies</a>	12	COSC3101	City Campus
<a href="#">Apple Platform Project</a>	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
<a href="#">Further Programming</a>	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
<a href="#">Full Stack Development</a>	12	COSC2758	City Campus
<a href="#">Software Testing</a>	12	ISYS1087	City Campus
<a href="#">Database Applications</a>	12	ISYS1102	City Campus
<a href="#">Web Development Technologies</a>	12	COSC2276	City Campus
<a href="#">iPhone Software Engineering</a>	12	COSC2471	City Campus
<a href="#">Software Engineering: Process and Tools</a>	12	COSC2299	City Campus
<a href="#">Programming Internet of Things</a>	12	COSC2674	City Campus
<a href="#">Algorithms and Analysis</a>	12	COSC2123	City Campus
<a href="#">Enterprise Application Development 1</a>	12	COSC3091	City Campus
<a href="#">Mobile Application Development</a>	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
<a href="#">Cell Biology and Biochemistry</a>	12	BIOL2146	City Campus
<a href="#">Genetics and Molecular Biology</a>	12	BIOL2262	City Campus
<a href="#">Computational Biology</a>	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
<a href="#">Linear Models and Experimental Design</a>	12	MATH2203	City Campus
<a href="#">Multivariate Analysis</a>	12	MATH2142	City Campus
<a href="#">Optimisation for Decision Making</a>	12	MATH2055	City Campus

AND Complete 12 credit points from the following:

Course Title	Credit Points	Course Code	Campus
<a href="#">Applied Bayesian Statistics</a>	12	MATH2305	City Campus
<a href="#">Analysis of Categorical Data</a>	12	MATH2300	City Campus
<a href="#">Time Series and Forecasting</a>	12	MATH2204	City Campus

AND

Minor: Digital Innovation

Complete 48 credit points from the following:

Course Title	Credit Points	Course Code	Campus
<a href="#">Foundations of Artificial Intelligence</a>	12	COSC2960	City Campus
<a href="#">Mixed Reality Technologies</a>	12	INTE2686	City Campus
<a href="#">Digital Fluency</a>	12	INTE2687	City Campus
<a href="#">Digital Innovation Project</a>	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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