

Course progression map for 2026 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It does not substitute for the list of required units as described in the course 'Requirements' section of the Handbook.

S2004 Bachelor of Science and Bachelor of Computer Science

Specialisation: Algorithms and software

	Bachelor of Science		Bachelor of Computer Science	
YEAR 1 Sem 1	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1058 Foundations of computing	FIT1045 Introduction to programming
YEAR 1 Sem 2	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1047 Introduction to computer systems, networks and security	FIT1049 IT professional practice
YEAR 2 Sem 1	Science major level 2	One of: SCI1020, SCI1022, STA1010, MTH1020, MTH1030, MTH1035 OR a level 1 science unit if the above is already completed as part of another level 1 approved sequence (<i>may be taken in either semester 1 or 2</i>)	FIT1008 Fundamentals of algorithms	FIT2094 Databases
YEAR 2 Sem 2	Science major level 2	SCI1000 Science communication to influence change	FIT2004 Algorithms and data structures	FIT2109 Computer science workshop
YEAR 3 Sem 1	Science major level 3	Science elective level 2 or 3	FIT2014 Theory of computation	FIT2099 Object oriented design and implementation
YEAR 3 Sem 2	Science major level 3	Science elective level 2 or 3	FIT2102 Programming paradigms	FIT3143 Parallel computing
YEAR 4 Sem 1	Science major level 3	Science elective level 2 or 3	FIT3161 Computer science project 1	FIT3155 Advanced data structures and algorithms
YEAR 4 Sem 2	Science major level 3	Science elective level 2 or 3	FIT3162 Computer science project 2	Algorithms and software approved elective level 3*

*If you are selected to participate in the IBL placement program, you will replace the level 3 elective unit with 6 points of the 18-point IBL unit (FIT3045).

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Specialisation: Artificial Intelligence

	Bachelor of Science		Bachelor of Computer Science	
YEAR 1 Sem 1	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1058 Foundations of computing	FIT1045 Introduction to programming
YEAR 1 Sem 2	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1047 Introduction to computer systems, networks and security	FIT1061 Introduction to artificial intelligence
YEAR 2 Sem 1	Science major level 2	One of: SCI1020, SCI1022, STA1010, MTH1020, MTH1030, MTH1035 OR a level 1 science unit if the above is already completed as part of another level 1 approved sequence (may be taken in either semester 1 or 2)	FIT1008 Fundamentals of algorithms	FIT1049 IT professional practice
YEAR 2 Sem 2	Science major level 2	SCI1000 Science communication to influence change	FIT2004 Algorithms and data structures	FIT2094 Databases
YEAR 3 Sem 1	Science major level 3	Science elective level 2 or 3	FIT2014 Theory of computation	FIT2111 Symbolic artificial intelligence and machine learning
YEAR 3 Sem 2	Science major level 3	Science elective level 2 or 3	FIT2112 Deep learning	FIT3203 Intelligent agents
YEAR 4 Sem 1	Science major level 3	Science elective level 2 or 3	FIT3193 AI project 1	FIT3191 Generative artificial intelligence
YEAR 4 Sem 2	Science major level 3	Science elective level 2 or 3	FIT3194 AI project 2	Artificial intelligence approved level 3 elective*

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Specialisation: Cybersecurity

	Bachelor of Science		Bachelor of Computer Science	
YEAR 1 Sem 1	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1045 Introduction to programming	FIT1047 Introduction to computer systems, networks and security
YEAR 1 Sem 2	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1058 Foundations of computing	FIT1093 Cybersecurity tools and techniques
YEAR 2 Sem 1	Science major level 2	One of: SCI1020, SCI1022, STA1010, MTH1020, MTH1030, MTH1035 OR a level 1 science unit if the above is already completed as part of another level 1 approved sequence (<i>may be taken in either semester 1 or 2</i>)	FIT1008 Fundamentals of algorithms	FIT1057 Introduction to cybersecurity
YEAR 2 Sem 2	Science major level 2	SCI1000 Science communication to influence change	FIT2004 Algorithms and data structures	FIT1049 IT professional practice
YEAR 3 Sem 1	Science major level 3	Science elective level 2 or 3	FIT2094 Databases	FIT2173 Software security
YEAR 3 Sem 2	Science major level 3	Science elective level 2 or 3	FIT2014 Theory of computation	Cybersecurity Approved Elective Level 3*
YEAR 4 Sem 1	Science major level 3	Science elective level 2 or 3	FIT3188 Cybersecurity project 1	FIT3186 Vulnerability analysis, response and mitigation
YEAR 4 Sem 2	Science major level 3	Science elective level 2 or 3	FIT3189 Cybersecurity project 2	FIT3185 Privacy enhancing technologies

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Specialisation: Data Science

	Bachelor of Science		Bachelor of Computer Science	
YEAR 1 Sem 1	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1045 Introduction to programming	FIT1058 Foundations of computing
YEAR 1 Sem 2	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1008 Fundamentals of algorithms	FIT1043 Introduction to data science
YEAR 2 Sem 1	Science major level 2	One of: SCI1020, SCI1022, STA1010, MTH1020, MTH1030, MTH1035 OR a level 1 science unit if the above is already completed as part of another level 1 approved sequence <i>(may be taken in either semester 1 or 2)</i>	FIT2004 Algorithms and data structures	FIT1049 IT professional practice
YEAR 2 Sem 2	Science major level 2	SCI1000 Science communication to influence change	FIT1047 Introduction to computer systems, networks and security	FIT2086 Modelling for data analysis
YEAR 3 Sem 1	Science major level 3	Science elective level 2 or 3	FIT2094 Databases	FIT2179 Data visualisation
YEAR 3 Sem 2	Science major level 3	Science elective level 2 or 3	FIT2014 Theory of computation	Data science approved level 3 elective
YEAR 4 Sem 1	Science major level 3	Science elective level 2 or 3	FIT3163 Data science project 1	FIT3152 Data analytics
YEAR 4 Sem 2	Science major level 3	Science elective level 2 or 3	FIT3164 Data science project 2	Data science approved level 3 elective*