

Bachelor of Information Technology – 2027 (March intake)
Arts (C2002), Business (B2017), Commerce (B2025), Criminology (A2009), Digital Business (B2050), Science (C2003)

Major: Agentic software engineering

Year 1	First Semester	FIT1045 Software development 1: programming foundations	Major unit 1 OR FIT1063 Topics in computing OR MTH1010+ Functions and their applications OR Elective	Degree 2	Degree 2
	Second Semester	FIT1047 Computing systems 1: foundations and operations	FIT1062 Data management	Degree 2	Degree 2
Year 2	First Semester	FIT1056 Making with artificial intelligence: software in the AI era	FIT2173 Software security OR FIT2115 Data structures and algorithms 1	Degree 2	Degree 2
	Second Semester	FIT2133 Software development 2: object and data modelling	FIT2121 System architecture and integration	Degree 2	Degree 2
Year 3	First Semester	FIT2119 Computing in practice: professional practice	FIT3224 Engineering agentic systems	Degree 2	Degree 2
	Second Semester	FIT2130* Computing in practice: project practices and management	FIT2107 Verification and validation	Degree 2	Degree 2
Year 4	First Semester	FIT3222* Computing in practice: project 1	Agentic Software Engineering elective**	Degree 2	Degree 2
	Second Semester	FIT3223* Computing in practice: project 2	Agentic Software Engineering elective**	Degree 2	Degree 2

+Note

If you're considering a major that requires VCE Mathematics Methods (Units 3 and 4) as a prerequisite, and you haven't completed this subject in year 12, you should enrol in MTH1010 before starting your major.

** Approved Electives (choose 2)

FIT3077 Software architecture and design (S1)

FIT3225 Agentic systems safety, assurance and governance (S2)

FIT3184 Cloud computing (S2)

* Industry Based Learning (IBL)

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Bachelor of Information Technology – 2027 (March intake)
Arts (C2002), Business (B2017), Commerce (B2025), Criminology (A2009), Digital Business (B2050), Science (C2003)
Major: Artificial intelligence algorithms and models

Year 1	First Semester	FIT1045 Software development 1: programming foundations	Major unit 1 OR FIT1063 Topics in computing OR MTH1010+ Functions and their applications OR Elective	Degree 2	Degree 2
	Second Semester	FIT1047 Computing systems 1: foundations and operations	FIT1062 Data management	Degree 2	Degree 2
Year 2	First Semester	MAT1003 Mathematics for algorithms and models	FIT2132 Reasoning with data	Degree 2	Degree 2
	Second Semester	FIT1061 AI algorithm foundations	FIT2112 Deep learning	Degree 2	Degree 2
Year 3	First Semester	FIT2119 Computing in practice: professional practice	FIT2111 Symbolic artificial intelligence and machine learning	Degree 2	Degree 2
	Second Semester	FIT2130* Computing in practice: project practices and management	Approved AI algorithms and models elective**	Degree 2	Degree 2
Year 4	First Semester	FIT3222* Computing in practice: project 1	Approved AI algorithms and models elective**	Degree 2	Degree 2
	Second Semester	FIT3223* Computing in practice: project 2	Approved AI algorithms and models elective**	Degree 2	Degree 2

+Note

If you have not completed Units 3 and 4 VCE Mathematics methods (or equivalent), you need to complete MTH1010 before proceeding with this major

**** Approved Electives (choose 3)**

FIT3191 Generative artificial intelligence
FIT3192 Emerging and advanced topics in artificial intelligence
FIT3203 Embodied artificial intelligence
FIT3233 Optimisation and reinforcement Learning

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Bachelor of Information Technology – 2027 (March intake)
Arts (C2002), Business (B2017), Commerce (B2025), Criminology (A2009), Digital Business (B2050), Science (C2003)
Major: Applied artificial intelligence

Year 1	First Semester	FIT1045 Software development 1: programming foundations	Major unit 1 OR FIT1063 Topics in computing OR MTH1010+ Functions and their applications OR Elective	Degree 2	Degree 2
	Second Semester	FIT1047 Computing systems 1: foundations and operations	FIT1059 Artificial intelligence: concepts and tools for impact	Degree 2	Degree 2
Year 2	First Semester	FIT1062 Data management	FIT2118 Artificial intelligence futures: research directions, drivers and dangers	Degree 2	Degree 2
	Second Semester	FIT1066 Responsible use of data in the age of AI	FIT2131 Practical artificial intelligence application and development	Degree 2	Degree 2
Year 3	First Semester	FIT2119 Computing in practice: professional practice	FIT2116 Artificial intelligence applications in context	Degree 2	Degree 2
	Second Semester	FIT2130* Computing in practice: project practices and management	FIT3206 Conversation for artificial intelligence	Degree 2	Degree 2
Year 4	First Semester	FIT3222* Computing in practice: project 1	FIT3205 Applied computer vision	Degree 2	Degree 2
	Second Semester	FIT3223* Computing in practice: project 2	FIT3226 Agentic and distributed AI: multi-agent systems, swarms and artificial life	Degree 2	Degree 2

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Bachelor of Information Technology – 2027 (March intake)
Arts (C2002), Business (B2017), Commerce (B2025), Criminology (A2009), Digital Business (B2050), Science (C2003)
Major: Business artificial intelligence systems

Year 1	First Semester	FIT1045 Software development 1: programming foundations	Major unit 1 OR FIT1063 Topics in computing OR MTH1010+ Functions and their applications OR Elective	Degree 2	Degree 2
	Second Semester	FIT1047 Computing systems 1: foundations and operations	FIT1062 Data management	Degree 2	Degree 2
Year 2	First Semester	FIT1056 Making with artificial intelligence: software in the AI era	FIT2179 Data visualisation	Degree 2	Degree 2
	Second Semester	FIT1059 Artificial intelligence: concepts and tools for impact	FIT2114 Systems thinking and dynamics for decision support	Degree 2	Degree 2
Year 3	First Semester	FIT2119 Computing in practice: professional practice	FIT2001 Design thinking for intelligent business systems	Degree 2	Degree 2
	Second Semester	FIT2130* Computing in practice: project practices and management	FIT3138 Business process transformation and intelligent enterprise systems	Degree 2	Degree 2
Year 4	First Semester	FIT3222* Computing in practice: project 1	FIT3174 Smart systems, artificial intelligence ethics and governance	Degree 2	Degree 2
	Second Semester	FIT3223* Computing in practice: project 2	FIT3158 Business intelligence and analytics	Degree 2	Degree 2

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Bachelor of Information Technology – 2027 (March intake)
Arts (C2002), Business (B2017), Commerce (B2025), Criminology (A2009), Digital Business (B2050), Science (C2003)
Major: Computer science

Year 1	First Semester	FIT1045 Software development 1: programming foundations	Major unit 1 OR FIT1063 Topics in computing OR MTH1010+ Functions and their applications OR Elective	Degree 2	Degree 2
	Second Semester	FIT1047 Computing systems 1: foundations and operations	FIT1062 Data management	Degree 2	Degree 2
Year 2	First Semester	MAT1830 Discrete mathematics for computer science	FIT2115 Data structures and algorithms 1	Degree 2	Degree 2
	Second Semester	FIT2102 Programming paradigms	FIT3234 Data structures and algorithms 2	Degree 2	Degree 2
Year 3	First Semester	FIT2119 Computing in practice: professional practice	FIT2134 Computing systems 2: architecture and operating systems	Degree 2	Degree 2
	Second Semester	FIT2130* Computing in practice: project practices and management	Approved computer science level 3 or 4 elective**	Degree 2	Degree 2
Year 4	First Semester	FIT3222* Computing in practice: project 1	FIT3235 Theory of computation 1: models of computation	Degree 2	Degree 2
	Second Semester	FIT3223* Computing in practice: project 2	Approved computer science level 3 or 4 elective**	Degree 2	Degree 2

+Note

If you have not completed Units 3 and 4 VCE Mathematics methods (or equivalent), you need to complete MTH1010 before proceeding with this major

**** Approved Electives (choose 2)**

FIT3232 Compiler engineering
 FIT3236 Theory of computation 2: Complexity and Intractability
 FIT3143 High performance parallel and distributed computing
 FIT4050 Knowledge representation, computational logic, and automated reasoning
 FIT4051 Advanced algorithms and data structures

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Bachelor of Information Technology – 2027 (March intake)
Arts (C2002), Business (B2017), Commerce (B2025), Criminology (A2009), Digital Business (B2050), Science (C2003)
Major: Cybersecurity

Year 1	First Semester	FIT1045 Software development 1: programming foundations	Major unit 1 OR FIT1063 Topics in computing OR MTH1010+ Functions and their applications OR Elective	Degree 2	Degree 2
	Second Semester	FIT1047 Computing systems 1: foundations and operations	FIT1062 Data management	Degree 2	Degree 2
Year 2	First Semester	FIT1057 Introduction to cybersecurity	FIT2173 Software security	Degree 2	Degree 2
	Second Semester	FIT1093 Cybersecurity tools and techniques	FIT2121 System architecture and integration	Degree 2	Degree 2
Year 3	First Semester	FIT2119 Computing in practice: professional practice	FIT2165 Computer networks	Degree 2	Degree 2
	Second Semester	FIT2130* Computing in practice: project practices and management	Cybersecurity elective**	Degree 2	Degree 2
Year 4	First Semester	FIT3222* Computing in practice: project 1	FIT3031 Network security	Degree 2	Degree 2
	Second Semester	FIT3223* Computing in practice: project 2	Cybersecurity elective**	Degree 2	Degree 2

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**** Approved Electives (choose 2)**

FIT3212 Security automation and artificial intelligence (S2)
 FIT3211 Adversary simulation and emulation (S1)
 FIT3210 Securing artificial intelligence systems (S2)
 FIT3168 IT forensics (S2)
 FIT3184 Cloud computing (S2)
 FIT3185 Privacy enhancing technologies (S1)

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Bachelor of Information Technology – 2027 (March intake)
Arts (C2002), Business (B2017), Commerce (B2025), Criminology (A2009), Digital Business (B2050), Science (C2003)
Major: Data science

Year 1	First Semester	FIT1045 Software development 1: programming foundations	Major unit 1 OR FIT1063 Topics in computing OR MTH1010+ Functions and their applications OR Elective	Degree 2	Degree 2
	Second Semester	FIT1047 Computing systems 1: foundations and operations	FIT1062 Data management	Degree 2	Degree 2
Year 2	First Semester	MAT1830 Discrete mathematics for computer science	FIT2179 Data visualisation	Degree 2	Degree 2
	Second Semester	MAT1003 Mathematics for algorithms and models	FIT2132 Reasoning with data	Degree 2	Degree 2
Year 3	First Semester	FIT2119 Computing in practice: professional practice	FIT2086 Predictive modelling and machine learning	Degree 2	Degree 2
	Second Semester	FIT2130* Computing in practice: project practices and management	FIT3154 Learning from complex data	Degree 2	Degree 2
Year 4	First Semester	FIT3222* Computing in practice: project 1	Approved data science level 3 elective**	Degree 2	Degree 2
	Second Semester	FIT3223* Computing in practice: project 2	Approved data science level 3 elective**	Degree 2	Degree 2

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**** Approved Electives (choose 2)**

ADS3001 Advanced data challenges ETC3450 Applied time series econometrics ETC3460 Financial econometrics ETC3550 Applied forecasting ETC3580 Advanced statistical modelling ETF3231 Business forecasting	FIT3182 Big data management and processing FIT3003 Business intelligence and data warehousing FIT3233 Optimisation and reinforcement learning FIT3191 Generative artificial intelligence MTH3330 Optimisation and operations research
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Bachelor of Information Technology – 2027 (March intake)
Arts (C2002), Business (B2017), Commerce (B2025), Criminology (A2009), Digital Business (B2050), Science (C2003)
Major: Games and immersive media

Year 1	First Semester	FIT1045 Software development 1: programming foundations	Major unit 1 OR FIT1063 Topics in computing OR MTH1010+ Functions and their applications OR Elective	Degree 2	Degree 2
	Second Semester	FIT1047 Computing systems 1: foundations and operations	FIT1033 Foundations of 3D	Degree 2	Degree 2
Year 2	First Semester	FIT1073 Game design	FIT2098 Virtual and augmented reality	Degree 2	Degree 2
	Second Semester	FIT1062 Data management	FIT2169 Immersive environments (S2) or FIT2096 Games programming (S1)	Degree 2	Degree 2
Year 3	First Semester	FIT2119 Computing in practice: professional practice	FIT3172 Sonics	Degree 2	Degree 2
	Second Semester	FIT2130* Computing in practice: project practices and management	FIT2175 User interface design	Degree 2	Degree 2
Year 4	First Semester	FIT3222* Computing in practice: project 1	FIT3187 3D character animation	Degree 2	Degree 2
	Second Semester	FIT3223* Computing in practice: project 2	FIT3097 Technical art	Degree 2	Degree 2

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Bachelor of Information Technology – 2027 (March intake)
Arts (C2002), Business (B2017), Commerce (B2025), Criminology (A2009), Digital
Business (B2050), Science (C2003)
Major: Software development

Year 1	First Semester	FIT1045 Software development 1: programming foundations	Major unit 1 OR FIT1063 Topics in computing OR MTH1010+ Functions and their applications OR Elective	Degree 2	Degree 2
	Second Semester	FIT1047 Computing systems 1: foundations and operations	FIT1060 Human understanding and artificial intelligence navigation	Degree 2	Degree 2
Year 2	First Semester	FIT1050 Web development	FIT2175 User interface design	Degree 2	Degree 2
	Second Semester	FIT3200 Inclusive interaction design	FIT2133 Software development 2: object and data modelling	Degree 2	Degree 2
Year 3	First Semester	FIT2119 Computing in practice: professional practice	FIT1062 Data management	Degree 2	Degree 2
	Second Semester	FIT2130* Computing in practice: project practices and management	FIT2095 Full stack development	Degree 2	Degree 2
Year 4	First Semester	FIT3222* Computing in practice: project 1	FIT3146 Makerspace	Degree 2	Degree 2
	Second Semester	FIT3223* Computing in practice: project 2	FIT3178 Mobile app development	Degree 2	Degree 2

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