

Bachelor of Computer Science (C2001) - Monash College (March 2027)

October and February outtakes

Artificial intelligence specialisation

Monash College 48 credit points	FIT1045 Introduction to programming (MCD4710) FIT1047 Introduction to computer systems, networks and security (MCD4700) FIT1049 IT professional practice (MCD4770) FIT1057 Introduction to cybersecurity (MCD4750) FIT1058 Foundations of computing (MCD4760) OR MAT1830 Discrete mathematics for computer science (MCD4440) FIT1033 Foundations of 3D (MCD4730) OR FIT1050 Web fundamentals (MCD4740) MTH1010 Functions and their applications (MCD2130) 1 x Level 1 elective (MCDXXXX)
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Monash University				
Semester 1 2027	FIT1008 Fundamentals of algorithms Replace with: FIT2115 Data structures and algorithms 1	FIT2094 Databases	FIT1061 Introduction to artificial intelligence	Level 1, 2 or 3 Elective
Semester 2 2027	FIT2014 Theory of computation	FIT2004 Algorithms and data structures Replace with: FIT3234 Data structures and algorithms 2	FIT2111 Symbolic artificial intelligence and machine learning	FIT2112 Deep learning
Semester 1 2028	FIT3193 Artificial intelligence project 1 Replace with: FIT3230 Computer science in practice: project 1	FIT3191 Generative artificial intelligence	FIT3192 Emerging and advanced topics in artificial intelligence OR FIT3183+ Malicious AI and dark side security	Level 2 or 3 Elective
Semester 2 2028	FIT3194 Artificial intelligence project 2 Replace with: FIT3231 Computer science in practice: project 2	FIT3203 Intelligent agents	Level 2 or 3 Elective	Level 2 or 3 Elective

Notes	
Credit points	Unless specified, all units are worth 6 credit points Bachelor of Computer Science 24 units x 6 credit points = Total of 144 credit points
Year Level Requirements	Normally 48 points, and a maximum of 60 points, of first year level units will be counted; 2) At least 36 points must be completed at third year level.
Unit requisites	All pre-requisite and co-requisite requirements must be undertaken to be able to enrol into a specific unit
Duration of degree	3 years full-time, 6 years part-time
Time limit	Time limit = 8 years. Students have eight years in which to complete this award from the time they commence first year. Periods of intermission are counted as part of the eight years.
Specialisations	Coloured units in the course map indicate the units counting towards the specialisation
Key	Units in RED are replacement units for core units that are no longer offered due to course re-structure. Refer to https://www.monash.edu/it/current-students/courses/re-enrolment/undergraduate for more information.

+ This unit is offered at Malaysia campus only

Faculty of Information Technology (October 2026)

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Bachelor of Computer Science (C2001) - Monash College (March 2027)

October and February outtakes

Algorithms and software specialisation

Monash College 48 credit points	FIT1045 Introduction to programming (MCD4710) FIT1047 Introduction to computer systems, networks and security (MCD4700) FIT1049 IT professional practice (MCD4770) FIT1057 Introduction to cybersecurity (MCD4750) FIT1058 Foundations of computing (MCD4760) OR MAT1830 Discrete mathematics for computer science (MCD4440) FIT1033 Foundations of 3D (MCD4730) OR FIT1050 Web fundamentals (MCD4740) MTH1010 Functions and their applications (MCD2130) 1 x Level 1 elective (MCDXXXX)
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Monash University

Semester 1 2027	FIT1008 Fundamentals of algorithms Replace with: FIT2115 Data structures and algorithms 1	FIT2094 Databases	FIT2099 Object-oriented design and implementation	Level 1, 2 or 3 Elective
Semester 2 2027	FIT2014 Theory of computation	FIT2004 Algorithms and data structures Replace with: FIT3234 Data structures and algorithms 2	FIT2102 Programming paradigms	FIT2109 Computer science workshop
Semester 1 2028	FIT3161 Computer science project 1 Replace with: FIT3230 Computer science in practice: project 1	Level 3 Algorithms and software Approved Elective*	Level 1, 2 or 3 Elective	Level 2 or 3 Elective
Semester 2 2028	FIT3162 Computer science project 2 Replace with: FIT3231 Computer science in practice: project 2	FIT3155 Advanced data structures and algorithms	FIT3143 Parallel computing	Level 2 or 3 Elective

* Approved Algorithms and software Electives (choose 1):

FIT3080 Artificial Intelligence FIT3139 Computational modelling and simulation FIT3146 Maker lab FIT3159 Computer architecture	MTH3170 Network mathematics MTH3175 Network mathematics (Advanced)
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Note that not all units will be taught in every year and some will be offered only in alternate years

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Bachelor of Computer Science (C2001) - Monash College (March 2027)

October and February outtakes

Data science specialisation

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Monash University

Semester 1 2027	FIT1008 Fundamentals of algorithms Replace with: FIT2115 Data structures and algorithms 1	FIT2094 Databases	FIT2179 Data visualisation	Level 1, 2 or 3 Elective
Semester 2 2027	FIT2014 Theory of computation	FIT2004 Algorithms and data structures Replace with: FIT3234 Data structures and algorithms 2	FIT1043 Introduction to data science and AI Replace with: FIT2132 Reasoning with data	FIT2086 Modelling for data analysis
Semester 1 2028	FIT3163 Data science project 1 Replace with: FIT3230 Computer science in practice: project 1	FIT3152 Data analytics	Level 3 Data Science Approved Elective*	Level 1, 2 or 3 Elective
Semester 2 2028	FIT3164 Data science project 2 Replace with: FIT3231 Computer science in practice: project 2	FIT3080 Artificial intelligence	Level 2 or 3 Elective	Level 2 or 3 Elective

* Approved Data Science Electives (choose 1):

FIT3003 Business intelligence and data warehousing
FIT3154 Advanced data analysis
FIT3181 Deep learning
FIT3182 Big data management and processing
FIT3183 Malicious AI and dark side security
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Bachelor of Computer Science (C2001) - Monash College March 2027

February intake

Cybersecurity specialisation

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Monash University				
Semester 1 2027	FIT1008 Fundamentals of algorithms Replace with: FIT2115 Data structures and algorithms 1	FIT2094 Databases	FIT2173 Software security	Level 1, 2 or 3 Elective
Semester 2 2027	FIT2014 Theory of computation	FIT2004 Algorithms and data structures Replace with: FIT3234 Data structures and algorithms 2	FIT1093 Cybersecurity tools and techniques	Level 2 or 3 Elective
Semester 1 2028	FIT3188 Cybersecurity project 1 Replace with: FIT3230 Computer science in practice: project 1	FIT3185 Privacy enhancing technologies	Level 3* Cybersecurity Approved Elective	Level 2 or 3 Elective
Semester 2 2028	FIT3189 Cybersecurity project 2 Replace with: FIT3231 Computer science in practice: project 2	FIT3186 Vulnerability analysis, response and mitigation	Level 2 or 3 Elective	Level 2 or 3 Elective

*Approved Cybersecurity Electives (choose 1)

FIT3031 Network security
FIT3168 IT forensics
FIT3184 Cloud computing
Note that not all units will be taught in every year and some will be offered only in alternate years

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