

Bachelor of Computer Science (C2001) - Monash College March 2026

October and February outtakes

Algorithms and software specialisation

Monash College

First Trimester	MCD1470/MCD4770 Engineering practice/Professional practice CREDIT: FIT1049 IT professional practice	MCD2130 Functions and their applications OR MCD4490 Advanced mathematics CREDIT: MTH1010 Functions and their applications OR MTH1020 Analysis of change (Elective)	MCD4700 Introduction to computer systems, networks and security CREDIT: FIT1047 Introduction to computer systems, networks and security	MCD4710 Introduction to algorithms and programming CREDIT: FIT1045 Introduction to programming
Second Trimester	MCD4720 Fundamentals of C++ CREDIT: FIT1048 Fundamentals of C++ (Elective)	MCD4740 Web fundamentals OR MCD4730 Foundations of 3D CREDIT: FIT1050 Web fundamentals OR FIT1033 Foundations of 3D (Elective)	MCD4500 Engineering mathematics CREDIT: ENG1005 Engineering mathematics	MCD4440 Discrete mathematics for computer science CREDIT: MAT1830 Discrete mathematics for computer science PRECLUSION: FIT1058 Foundations of computing

Monash University

Semester 1 2026	FIT1008 Fundamentals of algorithms	FIT2094 Databases	FIT2099 Object-oriented design and implementation	Level 1, 2 or 3 Elective
Semester 2 2026	FIT2014 Theory of computation	FIT2004 Algorithms and data structures	FIT2102 Programming paradigms	FIT2109 Computer science workshop
Semester 1 2027	FIT3161 Computer science project 1	Level 3 Algorithms and software Approved Elective*	Level 3 Elective	Level 2 or 3 Elective
Semester 2 2027	FIT3162 Computer science 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)

Note that not all units will be taught in every year and some will be offered only in alternate years

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October and February outtakes

Data science and AI specialisation

Monash College

First Trimester	MCD1470/MCD4770 Engineering practice/Professional practice CREDIT: FIT1049 IT professional practice	MCD2130 Functions and their applications OR MCD4490 Advanced mathematics CREDIT: MTH1010 Functions and their applications OR MTH1020 Analysis of change (Elective)	MCD4700 Introduction to computer systems, networks and security CREDIT: FIT1047 Introduction to computer systems, networks and security	MCD4710 Introduction to algorithms and programming CREDIT: FIT1045 Introduction to programming
Second Trimester	MCD4720 Fundamentals of C++ CREDIT: FIT1048 Fundamentals of C++ (Elective)	MCD4740 Web fundamentals OR MCD4730 Foundations of 3D CREDIT: FIT1050 Web fundamentals OR FIT1033 Foundations of 3D (Elective)	MCD4500 Engineering mathematics CREDIT: ENG1005 Engineering mathematics	MCD4440 Discrete mathematics for computer science CREDIT: MAT1830 Discrete mathematics for computer science PRECLUSION: FIT1058 Foundations of computing

Monash University

Semester 1 2026	FIT1008 Fundamentals of algorithms	FIT2094 Databases	FIT2179 Data visualisation	Level 2 or 3 Elective
Semester 2 2026	FIT2014 Theory of computation	FIT2004 Algorithms and data structures	FIT1043 Introduction to data science and AI	FIT2086 Modelling for data analysis
Semester 1 2027	FIT3163 Data science and AI project 1	FIT3152 Data analytics	Level 3 Data Science and AI Approved Elective*	Level 2 or 3 Elective
Semester 2 2027	FIT3164 Data science and AI project 2	FIT3080 Artificial intelligence	Level 3 Elective	Level 2 or 3 Elective

* Approved Data Science and AI 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

Note that not all units will be taught in every year and some will be offered only in alternate years

Bachelor of Computer Science (C2001) - Monash College March 2026

February outbreak

Cybersecurity specialisation

Monash College

First Trimester	MCD1470/MCD4770 Engineering practice/Professional practice CREDIT: FIT1049 IT professional practice	MCD2130 Functions and their applications OR MCD4490 Advanced mathematics CREDIT: MTH1010 Functions and their applications OR MTH1020 Analysis of change (Elective)	MCD4700 Introduction to computer systems, networks and security CREDIT: FIT1047 Introduction to computer systems, networks and security	MCD4710 Introduction to algorithms and programming CREDIT: FIT1045 Introduction to programming
Second Trimester	MCD4720 Fundamentals of C++ CREDIT: FIT1048 Fundamentals of C++ (Elective)	MCD4500 Engineering mathematics CREDIT: ENG1005 Engineering mathematics (Elective)	MCD4440 Discrete mathematics for computer science CREDIT: MAT1830 Discrete mathematics for computer science PRECLUSION: FIT1058 Foundations of computing	MCD4750 Introduction to cybersecurity CREDIT: FIT1057 Introduction to cybersecurity

Monash University

Semester 1 2026	FIT1008 Fundamentals of algorithms	FIT2094 Databases	FIT2173 Software security	Level 1, 2 or 3 Elective
Semester 2 2026	FIT2014 Theory of computation	FIT2004 Algorithms and data structures	FIT1093 Cybersecurity tools and techniques	Level 2 or 3 Elective
Semester 1 2027	FIT3188* Cybersecurity project 1	FIT3185 Privacy enhancing technologies	Level 3* Cybersecurity Approved Elective	Level 2 or 3 Elective
Semester 2 2027	FIT3189* Cybersecurity project 2	FIT3186 Vulnerability analysis, response and mitigation	Level 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

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	1) 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 in order 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.
Monash University handbook	Students should follow the course requirements for the year the course was commenced https://handbook.monash.edu/browse/By%20Faculty/FacultyofInformationTechnology

Faculty of Information Technology (February 2026)

While the information provided here was correct at the time of viewing and/or printing, you should carefully read all official correspondence and other sources of information for students to stay informed about any changes. Consult with the relevant faculty officers if in doubt when planning your course. Some units described may change or may not be offered due to insufficient enrolments or changes to teaching personnel.