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

Bachelor of Computer Science (C2001) - Monash College March 2026
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 October outtake 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	
Monash University				
Semester 1 2026	**FIT1008** Fundamentals of algorithms	**FIT2094** Databases	**FIT1057** Introduction to cybersecurity	**FIT2173** Software security
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	**FIT3185** Privacy enhancing technologies	**Level 3*** Cybersecurity Approved Elective	**Level 3 Elective**	**Level 2 or 3 Elective**
Semester 2 2027	**FIT3188*** Cybersecurity project 1	**FIT3186** Vulnerability analysis, response and mitigation	**Level 2 or 3 Elective**	
Semester 1 2028	**FIT3189*** Cybersecurity project 2			

****Approved Cybersecurity Electives (choose 1)**

FIT3031 Network security [FIT2165]
FIT3168 IT forensics [FIT1057 and FIT2173]
FIT3184 Cloud computing [FIT1045 and 90 pts of study]
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	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