## Bachelor of Computer Science (C2001) – 2026 (November intake)
## Specialisation: Algorithms and software

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|---|---|---|---|---|---|
| **Year 1** | **November Semester** | **FIT1045** Introduction to programming | **FIT1047** Introduction to computer systems, networks and security | **FIT1058** Foundations of computing | **Elective (FIT1050, FIT1059 or any level 1 unit)** |
| | **First Semester** | **FIT1008** Fundamentals of algorithms **Replace with:** FIT2115 Data structures and algorithms 1 | **FIT1049** IT professional practice | **FIT2099** Object-oriented design and implementation | **Elective** |
| **Year 2** | **Second Semester** | **FIT2004** Algorithms and data structures **Replace with: FIT3234** Data structures and algorithms 2 | **FIT2109** Computer science workshop | **Elective** | **Elective** |
| | **First Semester** | **FIT2014** Theory of computation | **FIT2094** Databases | **Elective** | **Elective** |
| **Year 3** | **Second Semester** | **FIT3161 *** Computer science project 1 **Replace with: FIT3230** Computer science in practice: project 1 | **FIT2102** Programming paradigms | **FIT3143** Parallel computing | **Elective** |
| | **First Semester** | **FIT3162** * Computer science project 2 **Replace with (from S2 2027): FIT3231** Computer science in practice: project 2 | **FIT3155** Advanced data structures and algorithms | **Level 3 *** Algorithms and software Approved Elective** | **Elective** |

** Approved Algorithms and software Electives (choose 1)

FIT3080 Artificial intelligence
FIT3139 Computational modelling and simulation
FIT3146 Maker lab
FIT3159 Computer architecture
FIT3196 Computer architecture and networks
MTH3170 Network mathematics
MTH3175 Network mathematics (Advanced)

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

*** Industry Based Learning (IBL)**

- Students accepted into the IBL program will replace FIT3161, FIT3162 and the Level 3 Approved Elective with FIT3045 Industry based learning (18 points).
- IBL placements will normally be completed in semester 1 of third year for BCS Advanced Computer Science students.
- Students completing an IBL placement must overload in one semester OR complete a summer unit to complete the course in 3 years.


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| Bachelor of Computer Science (C2001) – 2026 (November intake)<br>Specialisation: Artificial intelligence | | | | | |
|---|---|---|---|---|---|
| **Year 1** | **November Semester** | **FIT1045**<br>Introduction to programming | **FIT1047**<br>Introduction to computer systems, networks and security | **FIT1058**<br>Foundations of computing | **Elective**<br>**(FIT1050, FIT1059 or any level 1 unit)** |
| | **First Semester** | **FIT1008**<br>Fundamentals of algorithms<br>**Replace with:**<br>FIT2115<br>Data structures and algorithms 1 | **FIT1049**<br>IT professional practice | **FIT1061**<br>Introduction to artificial intelligence | **Elective** |
| **Year 2** | **Second Semester** | **FIT2004**<br>Algorithms and data structures<br>**Replace with:**<br>**FIT3234**<br>Data structures and algorithms 2 | **FIT2094**<br>Databases | **FIT2112**<br>Deep learning | **Elective** |
| | **First Semester** | **FIT2014**<br>Theory of computation | **FIT2111**<br>Symbolic artificial intelligence and machine learning | **Elective** | **Elective** |
| **Year 3** | **Second Semester** | **FIT3193***<br>Artificial intelligence project 1<br>**Replace with:**<br>**FIT3230**<br>Computer science in practice: project 1 | **FIT3203**<br>Intelligent agents | **Elective** | **Elective** |
| | **First Semester** | **FIT3194***<br>Artificial intelligence project 2<br>**Replace with:**<br>**FIT3231**<br>Computer science in practice: project 2 | **FIT3191**<br>Generative artificial intelligence | **FIT3192***<br>Emerging and advanced topics in artificial intelligence<br>OR<br>**FIT3183+**<br>Malicious AI and dark side security | **Elective** |

+ This unit is only available in Malaysia. Clayton students need to complete FIT3192.

* Industry Based Learning (IBL)

- Students accepted into the IBL program will replace FIT3193, FIT3194 and FIT3192 with FIT3045 Industry based learning (18 points).
- IBL placements will normally be completed in semester 1 of third year for BCS AI students.
- Students completing an IBL placement must overload in one semester OR complete a summer unit to complete the course in 3 years.


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## Bachelor of Computer Science (C2001) – 2026 (November intake)
## Specialisation: Cybersecurity

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|---|---|---|---|---|---|
| **Year 1** | **November Semester** | **FIT1045** Introduction to programming | **FIT1047** Introduction to computer systems, networks and security | **FIT1058** Foundations of computing | **Elective (FIT1050, FIT1059 or any Level 1 unit)** |
| | **First Semester** | **FIT1008** Fundamentals of algorithms **Replace with:** FIT2115 Data structures and algorithms 1 | **FIT1049** IT professional practice | **FIT1057** Introduction to cybersecurity | **Elective** |
| **Year 2** | **Second Semester** | **FIT2004** Algorithms and data structures **Replace with: FIT3234** Data structures and algorithms 2 | **FIT2094** Databases | **FIT1093** Cybersecurity tools and techniques | **Elective** |
| | **First Semester** | **FIT2014** Theory of computation | **FIT2173** Software security | **Elective** | **Elective** |
| **Year 3** | **Second Semester** | **FIT3188*** Cybersecurity project 1 **Replace with: FIT3230** Computer science in practice: project 1 | **FIT3186** Vulnerability analysis, response and mitigation | **Level 3*** Cybersecurity Approved Elective** | **Elective** |
| | **First Semester** | **FIT3189*** Cybersecurity project 2 **Replace with (from S2 2027): FIT3231** Computer science in practice: project 2 | **FIT3185** Privacy enhancing technologies | **Elective** | **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.

* Industry Based Learning (IBL)

- Students accepted into the IBL program will replace FIT3188, FIT3189 and the Level 3 Cybersecurity Approved Elective with FIT3045 Industry based learning (18 points).
- IBL placements will normally be completed in semester 2 of second year for BCS Cybersecurity students.
- Students completing an IBL placement must overload in one semester OR complete a summer unit to complete the course in 3 years.


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## Bachelor of Computer Science (C2001) – 2026 (November intake)
## Specialisation: Data science

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|---|---|---|---|---|---|
| **Year 1** | **November Semester** | **FIT1045** Introduction to programming | **FIT1047** Introduction to computer systems, networks and security | **FIT1058** Foundations of computing | **Elective (FIT1050, FIT1059 or any level 1 unit)** |
| | **First Semester** | **FIT1008** Fundamentals of algorithms **Replace with:** FIT2115 Data structures and algorithms 1 | **FIT1049** IT professional practice | **Elective** | **Elective** |
| **Year 2** | **Second Semester** | **FIT2004** Algorithms and data structures **Replace with:** **FIT3234** Data structures and algorithms 2 | **FIT1043** Introduction to data science Replace with: FIT2132 Reasoning with data | **FIT2086** Modelling for data science | **Elective** |
| | **First Semester** | **FIT2014** Theory of computation | **FIT2094** Databases | **FIT2179** Data visualisation | **Elective** |
| **Year 3** | **Second Semester** | **FIT3163*** Data science project 1 **Replace with:** **FIT3230** Computer science in practice: project 1 | **FIT3152** Data analytics | **Level 3*** Data Science Approved Elective** | **Elective** |
| | **First Semester** | **FIT3164*** Data science project 2 **Replace with:** **FIT3231** Computer science in practice: project 2 | **Level 3*** Data Science Approved Elective** | **Level 3 Elective** | **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

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

* Industry Based Learning (IBL)

- Students accepted into the IBL program will replace FIT3163, FIT3164 and the Level 3 Data Science Approved Elective with FIT3045 Industry based learning (18 points).
- IBL placements will normally be completed in semester 1 of third year for BCS Data Science students.
- Students completing an IBL placement must overload in one semester OR complete a summer unit in order to complete the course in 3 years.

**Notes**

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| **Electives** | Electives can be taken from any Faculty. For November elective offerings not run by FIT, refer to https://www.monash.edu/business/current-students/november-intake-2026. |
| **FIT November Dates** | Refer to https://www.monash.edu/students/admin/enrolments/dates/non-standard/2026 for November and other non-standard teaching and census dates for FIT units. All FIT November units will run over 10 weeks of teaching starting on 23 November 2026. |
| **Key** | Units in RED are approved replacements for units in teach-out due to course changes in 2027. Enrol in the unit in red where the core unit is no longer offered. |
| **Credit points** | Unless specified, all units are worth 6 credit points<br>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;<br>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. |
| **Monash University handbook** | Students should follow the course requirements for the year the course was commenced https://handbook.monash.edu/browse/By%20Faculty/FacultyofInformationTechnology |