

Bachelor of Computer Science (C2001) – 2025

Cybersecurity specialisation

Year 1 (48 credit points)

First Semester	FIT1045 Introduction to programming	FIT1047 Introduction to computer systems, networks and security	FIT1058 Foundations of computing Replace with: MAT1830 Discrete mathematics for computer science	Elective
Second Semester	FIT1008 Fundamentals of algorithms Replace with: FIT2115 Data structures and algorithms 1	FIT1049 IT professional practice OR FIT1055 IT professional practices and ethics	FIT1093 Cybersecurity tools and techniques	Elective

Year 2 (48 credit points)

First Semester	FIT2004 Algorithms and data structures Replace with: FIT3234 Data structures and algorithms 2	FIT1057 Introduction to cybersecurity	FIT2173 Software security	Elective
Second Semester	FIT2014 Theory of computation	FIT2094 Databases	Elective	Elective

Year 3 (48 credit points)

First Semester	FIT3188* Cybersecurity project 1 Replace with: FIT3230 Computer science in practice: project 1	FIT3185 Privacy enhancing technologies	Level 3* Cybersecurity Approved Elective**	Elective
Second Semester	FIT3189* Cybersecurity project 2 Replace with (from S2 2027): FIT3231 Computer science in practice: project 2	FIT3186 Vulnerability analysis, response and mitigation	Elective	Elective

**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.

* 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.

Notes

Credit points	Unless specified, all units are worth 6 credit points Bachelor of Computer Science in Cybersecurity 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