

Bachelor of Computer Science Advanced (Honours) (C3001) – 2025

Cybersecurity specialisation

Year 1 (48 credit points)

First Semester	FIT1053 Introduction to programming (advanced) Replace with: FIT1045 Software development 1: programming foundations	FIT1047 Introduction to computer systems, networks and security	FIT1058 Foundations of computing Replace with: MAT1830 Discrete mathematics for computer science	Elective
Second Semester	FIT1054 Fundamentals of algorithms (advanced) Replace with: FIT2115 Data structures and algorithms 1	FIT1049 IT professional practice	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	FIT2083 Innovation and research in computer science
Second Semester	FIT2014 Theory of computation	FIT2094 Databases	FIT2082 Computer science research project	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

Year 4 (48 credit points)

First Semester	FIT4441 Honours thesis – part 1	FIT4442 Honours thesis – part 2	Level 4/5 Computer science approved elective	Elective
Second Semester	FIT4443 Honours thesis – part 3	FIT4444 Honours thesis – final	Level 4/5 Computer science approved elective	Elective

* Level 3 Cybersecurity approved electives:

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 Advanced Honours students in the Cybersecurity specialisation.
- 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 Advanced (Honours) 32 units x 6 credit points = Total of 192 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	4 years full-time, 8 years part-time
Time limit	Time limit = 10 years. Students have ten years in which to complete this award from the time they commence first year. Periods of intermission are counted as part of the ten years.