

Bachelor of Computer Science Advanced (Honours) (C3001) – 2027 March intake

Year 1	First Semester	FIT1045 Software development 1: programming foundations	FIT1047 Computing systems 1: foundations and operations	MAT1830 Discrete mathematics for computer science	MAT1003 Mathematics for algorithms and models
	Second Semester	FIT1062 Data management	FIT2115 Data structures and algorithms 1	FIT2102 Programming paradigms	Elective OR FIT1063 Topics in computing
Year 2	First Semester	FIT2119 Computing in practice: professional practice	FIT3235 Theory of computation 1: models of computation	FIT2134 Computing systems 2: architecture and operating systems	Elective
	Second Semester	FIT2130* Computing in practice: project practices and management	FIT3132 Compiler engineering	FIT3234 Data structures and algorithms 2	Elective
Year 3	First Semester	FIT3230* Computer science in practice: project 1	FIT4051 Advanced algorithms and data structures	FIT4050 Knowledge representation, computational logic, and automated reasoning	Elective
	Second Semester	FIT3231* Computer science in practice: project 2	FIT3143 High performance parallel and distributed computing	FIT3236 Theory of computation 2: complexity and intractability	Elective
Year 4	First Semester	FIT4045 Computing research project 1	FIT5125 IT research and innovation methods	Elective	Elective
	Second Semester	FIT4046 Computing research project 2	Approved level 4/5 elective	Elective	Elective

* Industry Based Learning (IBL)

- Students accepted into the IBL program will replace FIT2130, FIT3230 and FIT3231 with FIT3045 Industry based learning (18 points).
- IBL placements will normally be completed in semester 2 of third year or semester 1 of fourth year.
- Students completing an IBL placement must overload in one semester OR complete a summer unit to complete the course in 3 years