

BACHELOR OF COMPUTER SCIENCE (2380) - 2015

Coursework stream

This course map shows a recommended progression only. Some units can be taken in semesters other than those indicated below. Students completing units in a different sequence to that indicated above should be aware of unit prerequisites and semesters of offering prior to varying their course progression. Please see a Course Advisor for any queries.

UNITS IN RED ARE REPLACEMENTS FOR CORE UNITS NO LONGER OFFERED. SEE <http://www.monash.edu/it/current-students/course-information/course-maps-and-handbooks> FOR FURTHER TRANSITION INFORMATION.

Year 1

First Semester	FIT1029 Algorithmic problem solving OR FIT1045 Introduction to algorithms and programming	FIT1040 Digital futures: Adventures in programming	MAT1830 Discrete mathematics for computer science	Elective
Second Semester	FIT1008 Introduction to computer science [FIT1040 & FIT1029]	FIT1004 Data management OR FIT2094 Databases [FIT1045 or FIT1048 or FIT1051]	FIT1031 Computers and networks OR FIT1047 Introduction to computer systems, networks and security	Elective

Year 2

First Semester	FIT2004 Algorithms and data structures [FIT1008 & 6 pts approved Maths]	FIT2001 Systems development [24pts level 1 FIT]	FIT2003 IT professional practice [24pts level 1 IT] OR FIT1049 IT professional practice [12pts FIT]	Elective Level 1 or 2
Second Semester	FIT2014 Theory of computation [One of (FIT1029, FIT1045, FIT1048, FIT1051, ENG1003) and one of (MAT1830, MTH1030)]	FIT2002 Project management [36pts of study, including one of (FIT1040, FIT1045, FIT1048, FIT1051, ENG1003) and one of (FIT1049, FIT2003)]	MAT2003 Continuous mathematics for computer science OR MAT1841 Continuous mathematics for computer science	Elective Level 1 or 2

Year 3

First Semester	FIT3140 Advanced programming [FIT1008] OR FIT3155 Advanced data structures and algorithms [FIT2004]	Level 3 Computer Science Approved Elective*	Elective Level 3	Elective Level 2 or 3
Second Semester	FIT3036 Computer science project [FIT2004 or FIT3140] OR FIT3144* Advanced computer science project (12 pts) [See Handbook]	Level 3 Computer Science Approved Elective*	Elective Level 3	Elective Level 2 or 3

144 points must be completed to qualify for the degree of Bachelor of Computer Science, with the following conditions:

- normally 48 points, and a maximum of 60 points, of first year level units will be counted;
- at least 36 points must be completed at second year level
- at least 36 points must be completed at third year level. This requirement is reduced to 24 points at level three if two named minors are taken.

All units are 6 points unless indicated otherwise. All course variations must be approved by the Course Director and will be confirmed in writing.

* Students completing the 12-point Computer science project (FIT3144) will only complete one Approved Computer Science Elective

Please see <http://www.monash.edu/it/current-students/course-information/course-maps-and-handbooks> for specified Approved Computer Science Electives and <http://www.monash.edu.au/pubs/handbooks/courses/2380.html> for information on recommended majors and minors in the Bachelor of Computer Science.