MONASH University

Course progression map for 2017 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It does not substitute for the list of required units as described in the course 'Requirements' section of the Handbook.

C2001 Bachelor of Computer Science

Specialisation – Computer Science

The placement of units may be rearranged to provide flexibility in choice of elective units and to support sequencing for double degree courses but care should be taken to ensure sequenced units are maintained in sequence.

Year 1 Semester 1	FIT1045 Algorithms and programming fundamentals in Python	MAT1830 Discrete mathematics for computer science	FIT1047 Introduction to computer systems, networks and security	Elective
Year 1 Semester 2	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science	FIT1049 IT professional practice	Elective
Year 2 Semester 1	FIT2004 Algorithms and data structures	FIT2099 Object-oriented design and implementation	Elective	Elective
Year 2 Semester 2	FIT2014 Theory of computation	FIT2102 Programming paradigms	Elective	Elective
Year 3 Semester 1	FIT3161 Computer science project 1	FIT3171 Databases	Approved Level 3 Computer Science elective	Elective
Year 3 Semester 2	FIT3162 Computer science project 2	FIT3155 Advanced data structures and algorithms	FIT3143 Parallel computing	Elective

A	Foundational computer science
B	Professional skills study
C,D	Specialist discipline knowledge, problem solving and analytic skills
E	Applied practice
F	Free elective study

Source: *Monash University 2017 Handbook* –http://www.monash.edu.au/pubs/2017handbooks/maps/map-c2001.pdf
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C2001 Bachelor of Computer Science

Specialisation – Data Science

The placement of units may be rearranged to provide flexibility in choice of elective units and to support sequencing for double degree courses but care should be taken to ensure sequenced units are maintained in sequence.

Year 1 Semester 1	FIT1045 Introduction to algorithms and programming	MAT1830 Discrete mathematics for computer science	FIT1047 Introduction to computer systems, networks and security	Elective
Year 1 Semester 2	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science	FIT1043 Introduction to data science	Elective
Year 2 Semester 1	FIT2004 Algorithms and data structures	FIT2094 Databases	Elective	Elective
Year 2 Semester 2	FIT1049 IT professional practice	FIT2014 Theory of computation	FIT2086 Modelling for data science	Elective
Year 3 Semester 1	FIT3163 Data science project 1	Approved Level 3 Data Science elective	Elective	Elective
Year 3 Semester 2	FIT3164 Data science project 2	Approved Level 3 Data Science elective	FIT3179 Data visualisation	Elective

A	Foundational computer science
B	Professional skills study
C,D	Specialist discipline knowledge, problem solving and analytic skills
E	Applied practice
F	Free elective study

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