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.

S2004 Bachelor of Science and Bachelor of Computer Science

Specialisation - Advanced Computer Science

	Bachelor of Science		Bachelor of Computer Science	
YEAR 1 Sem 1	Science major Approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
YEAR 1 Sem 2	Science major Approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
YEAR 2 Sem 1	Science major level 2	Science elective level 1	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
YEAR 2 Sem 2	Science major level 2	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced)	FIT2014 Theory of computation	FIT1049 IT professional practice
YEAR 3 Sem 1	Science major level 3	Science elective	FIT2099 Object oriented design and implementation	FIT3171 Databases
YEAR 3 Sem 2	Science major level 3	Science elective level 2 or 3	FIT2102 Programming paradigms	FIT3155 Advanced data structures and algorithms
YEAR 4 Sem 1	Science major level 3	Science elective level 2 or 3	FIT3161 Computer science project 1	Computer science approved level 3 elective
YEAR 4 Sem 2	Science major level 3	Science elective level 2 or 3	FIT3162 Computer science project 2	FIT3143 Parallel computing

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[S2004](#) Bachelor of Science and Bachelor of Computer Science

Specialisation - Data Science

	Bachelor of Science		Bachelor of Computer Science	
YEAR 1 Sem 1	Science major Approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
YEAR 1 Sem 2	Science major Approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
YEAR 2 Sem 1	Science major level 2	Science elective level 1	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
YEAR 2 Sem 2	Science major level 2	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced)	FIT2014 Theory of computation	FIT1043 Introduction to data science
YEAR 3 Sem 1	Science major level 3	Science elective	FIT2094 Databases	FIT1049 IT professional practice
YEAR 3 Sem 2	Science major level 3	Science elective level 2 or 3	FIT2086 Modelling for data science	FIT3179 Data visualisation
YEAR 4 Sem 1	Science major level 3	Science elective level 2 or 3	FIT3163 Data science project 1	Data science approved level 3 elective
YEAR 4 Sem 2	Science major level 3	Science elective level 2 or 3	FIT3164 Data science project 2	Data science approved level 3 elective