MONASH University

Course progression map for 2024 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 Introduction to programming	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 Fundamentals of algorithms	MAT1841 Continuous mathematics for computer science
YEAR 2 Sem 1	Science major level 2	SCI1000 Science communication to influence change	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
YEAR 2 Sem 2	Science major level 2	Science elective level 1	FIT2014 Theory of computation	FIT1049 IT professional practice OR FIT1055 IT professional practice
YEAR 3 Sem 1	Science major level 3	Science elective level 2 or 3	FIT2099 Object oriented design and implementation	FIT2094 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

Source: *Monash University 2024 Handbook – https://www.monash.edu/students/handbooks/maps/2024/map-s2004.pdf*
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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 Introduction to programming	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 Fundamentals of algorithms	MAT1841 Continuous mathematics for computer science
YEAR 2 Sem 1	Science major level 2	SCI1000 Science communication to influence change	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
YEAR 2 Sem 2	Science major level 2	Science elective level 1	FIT2014 Theory of computation	FIT1043 Introduction to data science
YEAR 3 Sem 1	Science major level 3	Science elective level 2 or 3	FIT2094 Databases	FIT1049 IT professional practice OR FIT1055 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	FIT3152 Data analytics
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

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