MONASH University

Course progression map for 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

Physics and Data science

	Bachelor of Science		Bachelor of Computer Science	
YEAR 1 Sem 1	PHS1011	MTH1020 Analysis for change	FIT1045 Introduction to programming	FIT1058 Foundations of computing
YEAR 1 Sem 2	PHS1022	MTH1030 Techniques for modelling	FIT1008 Fundamentals of algorithms	FIT1043 Introduction to data science
YEAR 2 Sem 1	PHS2061 Quantum and thermal physics	MTH2010 Multivariable calculus	FIT1049 IT professional practice	FIT2004 Algorithms and data structures
YEAR 2 Sem 2	PHS2062 Electromagnetism and optics	MTH2032 Differential equations with modelling	FIT1047 Introduction to computer systems, networks and security	FIT2086 Modelling for data analysis
YEAR 3 Sem 1	PHS3000 Experimental physics	PHS2081 Atomic, nuclear and condensed matter physics	FIT2094 Databases	FIT2179 Data visualisation
YEAR 3 Sem 2	SCI1000 Science communication to influence change (Can be taken in either semester one or two)	Science elective level 2 or 3	FIT2014 Theory of computation	Data science approved level 3 elective
YEAR 4 Sem1	PHS3101 Quantum mechanics	Science elective level 2 or 3	FIT3163 Data science project 1	FIT3152 Data analytics
YEAR 4 Sem 2	PHS3102 Statistical and condensed matter physics	Science elective level 2 or 3	FIT3164 Data science project 2	Data science approved elective level 3

*Physics major mapping for students who have completed Year 12 VCE or equivalent Maths Methods and Physics. Other units are available for those students who have not completed VCE Physics or VCE Maths Methods.

Source: *Monash University Handbook*
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