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.

C2003 Bachelor of Information Technology and Bachelor of Science

Cybersecurity (Major) and Astrophysics (Major) and Mathematics (Minor)

	Bachelor of Information Technology		Bachelor of Science	
YEAR 1 Sem 1	FIT1045 Software development 1: programming foundations	FIT1063 Topics in computing	PHS1011 Classical physics and relativity	MTH1020 Analysis of change
YEAR 1 Sem 2	FIT1047 Computing systems 1: Foundations and operations	FIT1062 Data management	PHS1022 Fields and quantum physics	MTH1030 Techniques for modelling
YEAR 2 Sem 1	FIT1057 Introduction to cybersecurity	FIT2173 Software security	ASP2011 Astronomy	MTH2010 Multivariable calculus
YEAR 2 Sem 2	FIT1093 Cybersecurity tools and techniques	FIT2121 System architecture and integration	ASP2062 Introduction to astrophysics	SCI1000 Science communication to influence change (Can be taken in either semester one or two)
YEAR 3 Sem 1	FIT2110 Computing in practice: Professional practice	FIT2165 Computer networks	ASP3051 Relativity and cosmology	MTH2021 Linear algebra with applications
YEAR 3 Sem 2	FIT2130* Computing in practice: Project practices and management	Cybersecurity elective**	ASP3012 Stars and galaxies	MTH2032 Differential equations with modelling
YEAR 4 Sem1	FIT3222* Computing in practice: Project 1	FIT3031 Network security	ASP3231 Observational astronomy	Science elective level 2 or 3
YEAR 4 Sem 2	FIT3223* Computing in practice: Project 2	Cybersecurity elective**	PHS3350 - Physics and astronomy research project 1	Science elective level 2 or 3

*Industry Based Learning (IBL) – Information Technology

- Students accepted into the IBL program will replace FIT2130, FIT3222 and FIT3223 with FIT3045 Industry based learning (18 points)
- IBL placements will normally be completed in semester 1 of third year or semester 1 of fourth year.
- Students completing an IBL placement must overload in one semester OR complete a summer unit in order to complete the course in 4 years.

** Approved cybersecurity electives:

- FIT3212 Security automation and artificial intelligence (S2)
- FIT3211 Adversary simulation and emulation (S1)
- FIT3210 Securing artificial intelligence systems (S2)
- FIT3168 IT forensics (S2)
- FIT3184 Cloud computing (S2)
- FIT3185 Privacy enhancing technologies (S1)

Source: *Monash University Handbook*
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