

## 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

#### Mathematics\* and Algorithms and software

	Bachelor of Science		Bachelor of Computer Science	
<b>YEAR 1</b> Sem 1	MTH1020 Analysis of change	<a href="#">Level 1 science sequence – unit 1</a>	FIT1045 Introduction to programming	FIT1058 Foundations of computing
<b>YEAR 1</b> Sem 2	MTH1030 Techniques for modelling	<a href="#">Level 1 science sequence – unit 2</a>	FIT1047 Introduction to computer systems, networks and security	FIT1049 IT professional practice
<b>YEAR 2</b> Sem 1	MTH2021 Linear algebra with applications	SCI1000 Science communication to influence change (Can be taken in either semester one or two)	FIT1008 Fundamentals of algorithms	FIT2094 Databases
<b>YEAR 2</b> Sem 2	MTH2010 Multivariable calculus	Science elective level 2 or 3	FIT2004 Algorithms and data structure	FIT2109 Computer science workshop
<b>YEAR 3</b> Sem 1	MTH2222 Mathematics of uncertainty	Science elective level 2 or 3	FIT2014 Theory of computation	FIT2099 Object oriented design and implementation
<b>YEAR 3</b> Sem 2	MTH3020 Complex analysis and integral transformations	Science elective level 2 or 3	FIT2102 Programming paradigms	FIT3143 Parallel computing
<b>YEAR 4</b> Sem 1	MTH3320 Computational linear algebra	Science elective level 2 or 3	FIT3161 Computer science project 1	FIT3155 Advanced data structures and algorithms
<b>YEAR 4</b> Sem 2	MTH3230 Time series and random processes in linear systems	Science elective level 2 or 3	FIT3162 Computer science project 2	Algorithms and software approved elective level 3

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