

## 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

#### Genetics and genomics and data science

	Bachelor of Science		Bachelor of Computer Science	
<b>YEAR 1</b> Sem 1	BIO1011 Blueprints for life	<a href="#">Level 1 science sequence – unit 1</a>	FIT1045 Introduction to programming	FIT1058 Foundations of computing
<b>YEAR 1</b> Sem 2	BIO1022 Life on Earth	<a href="#">Level 1 science sequence – unit 2</a>	FIT1008 Fundamentals of algorithms	FIT1043 Introduction to data science
<b>YEAR 2</b> Sem 1	GEN2041 Foundations for genetics	One of: SCI1020, SCI1022, STA1010, MTH1020, MTH1030, MTH1035 or level 1 science unit if completed at part of another level 1 approved sequence	FIT1049 IT professional practice	FIT2004 Algorithms and data structures
<b>YEAR 2</b> Sem 2	BIO2010 Data science for biologists	SCI1000 Science communication to influence change	FIT1047 Introduction to computer systems, networks and security	FIT2086 Modelling for data analysis
<b>YEAR 3</b> Sem 1	GEN2052 Genomics and population genetics	Science elective level 2 or 3	FIT2094 Databases	FIT2179 Data visualisation
<b>YEAR 3</b> Sem 2	GEN3030 Molecular, cellular and developmental genetics	Science elective level 2 or 3	FIT2014 Theory of computation	Data science approved level 3 elective
<b>YEAR 4</b> Sem 1	GEN3040 Genomics and its applications	Science elective level 2 or 3	FIT3163 Data science project 1	FIT3152 Data analytics
<b>YEAR 4</b> Sem 2	GEN3062 Evolutionary and ecological genetics	Science elective level 2 or 3	FIT3164 Data science project 2	Data science approved elective level 3