

# Course progression map for 2021 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	
<b>YEAR 1</b> Sem 1	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
<b>YEAR 1</b> Sem 2	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
<b>YEAR 2</b> Sem 1	Science major level 2	Science elective level 1	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
<b>YEAR 2</b> Sem 2	Science major level 2	Science elective level 2 or 3	FIT2014 Theory of computation	FIT1049 IT professional practice or FIT1055 IT professional practice
<b>YEAR 3</b> Sem 1	Science major level 3	Science elective	FIT2099 Object oriented design and implementation	FIT3171 Databases
<b>YEAR 3</b> Sem 2	Science major level 3	Science elective level 2 or 3	FIT2102 Programming paradigms	FIT3155 Advanced data structures and algorithms
<b>YEAR 4</b> Sem 1	Science major level 3	Science elective level 2 or 3	FIT3161 Computer science project 1	Computer science approved level 3 elective
<b>YEAR 4</b> Sem 2	Science major level 3	Science elective level 2 or 3	FIT3162 Computer science project 2	FIT3143 Parallel computing

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### **S2004** Bachelor of Science and Bachelor of Computer Science

#### Specialisation - Data Science

	Bachelor of Science		Bachelor of Computer Science	
<b>YEAR 1</b> Sem 1	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
<b>YEAR 1</b> Sem 2	Science major approved level 1 science sequence 1	Approved level 1 science sequence 2	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
<b>YEAR 2</b> Sem 1	Science major level 2	Science elective level 1	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
<b>YEAR 2</b> Sem 2	Science major level 2	Science elective level 2 or 3	FIT2014 Theory of computation	FIT1043 Introduction to data science
<b>YEAR 3</b> Sem 1	Science major level 3	Science elective	FIT2094 Databases	FIT1049 IT professional practice or FIT1055 IT professional practice
<b>YEAR 3</b> Sem 2	Science major level 3	Science elective level 2 or 3	FIT2086 Modelling for data science	FIT3179 Data visualisation
<b>YEAR 4</b> Sem 1	Science major level 3	Science elective level 2 or 3	FIT3163 Data science project 1	Data science approved level 3 elective
<b>YEAR 4</b> Sem 2	Science major level 3	Science elective level 2 or 3	FIT3164 Data science project 2	Data science approved level 3 elective