

Course progression map for 2020 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 | |
|------------------------|---|---|---|--|
| YEAR 1 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 |
| YEAR 1 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 |
| YEAR 2 Sem 1 | Science major level 2 | Science elective level 1 | FIT1047 Introduction to computer systems, networks and security | FIT2004 Algorithms and data structures |
| YEAR 2 Sem 2 | Science major level 2 | SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) | FIT2014 Theory of computation | FIT1049 IT professional practice or FIT1055 IT professional practice |
| YEAR 3 Sem 1 | Science major level 3 | Science elective | FIT2099 Object oriented design and implementation | FIT3171 Databases |
| YEAR 3 Sem 2 | Science major level 3 | Science elective level 2 or 3 | FIT2102 Programming paradigms | FIT3155 Advanced data structures and algorithms |
| YEAR 4 Sem 1 | Science major level 3 | Science elective level 2 or 3 | FIT3161 Computer science project 1 | Computer science approved level 3 elective |
| YEAR 4 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 | |
|------------------------|---|---|---|--|
| YEAR 1 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 |
| YEAR 1 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 |
| YEAR 2 Sem 1 | Science major level 2 | Science elective level 1 | FIT1047 Introduction to computer systems, networks and security | FIT2004 Algorithms and data structures |
| YEAR 2 Sem 2 | Science major level 2 | SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) | FIT2014 Theory of computation | FIT1043 Introduction to data science |
| YEAR 3 Sem 1 | Science major level 3 | Science elective | FIT2094 Databases | FIT1049 IT professional practice or FIT1055 IT professional practice |
| YEAR 3 Sem 2 | Science major level 3 | Science elective level 2 or 3 | FIT2086 Modelling for data science | FIT3179 Data visualisation |
| YEAR 4 Sem 1 | Science major level 3 | Science elective level 2 or 3 | FIT3163 Data science project 1 | Data science approved level 3 elective |
| YEAR 4 Sem 2 | Science major level 3 | Science elective level 2 or 3 | FIT3164 Data science project 2 | Data science approved level 3 elective |