# 😹 MONASH University

# **Course progression map for 2016 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 - Computer Science**

|                        | Bachelor of Science                                       |   | Bachelor of Computer Science                                |  |
|------------------------|---|---|---|--|
| <b>YEAR 1</b><br>Sem 1 | Science major –<br>Approved level 1<br>science sequence 1 | Approved level 1<br>science sequence 2  | FIT1045<br>Introduction to<br>algorithms and<br>programming | MAT1830<br>Discrete mathematics                          |
| YEAR 1<br>Sem 2        | Science major –<br>Approved level 1<br>science sequence 1 | Approved level 1<br>science sequence 2  | FIT1008<br>Introduction to<br>computer science              | MAT1841<br>Continuous<br>mathematics                     |
| YEAR 2<br>Sem 1        | Science major level 2                                     | Science elective level 1  | FIT1047<br>Computer systems,<br>networks and security       | FIT2004<br>Algorithms and data<br>structures             |
| <b>YEAR 2</b><br>Sem 2 | Science major level 2                                     | SCI2010 Scientific<br>practice and<br>communication or<br>SCI2015 Scientific<br>practice and<br>communication<br>(advanced) | FIT2014<br>Theory of<br>computation                         | FIT1049<br>IT professional<br>practice                   |
| YEAR 3<br>Sem 1        | Science major level 3                                     | Science elective  | FIT2099<br>OO design and<br>implementation                  | BCS Approved L3<br>Elective                              |
| YEAR 3<br>Sem 2        | Science major level 3                                     | Science elective level 2<br>or 3  | FIT2102<br>Programming<br>paradigms                         | FIT3155<br>Advanced data<br>structures and<br>algorithms |
| <b>YEAR 4</b><br>Sem 1 | Science major level 3                                     | Science elective level 2<br>or 3  | FIT3161<br>CS project 1                                     | BCS Approved L3<br>Elective                              |
| <b>YEAR 4</b><br>Sem 2 | Science major level 3                                     | Science elective level 2<br>or 3  | FIT3162<br>CS project 2                                     | FIT3143<br>Parallel computing                            |

Page 1 of 2

Source: Monash University 2016 Handbook – http://www.monash.edu.au/pubs/2016handbooks/maps/map-s2004.pdf CRICOS Provider Number: 00008C

While the information provided herein was correct at the time of viewing and/or printing, Monash University reserves the right to alter procedures, fees and regulations should the need arise. Students should carefully read all official correspondence, other sources of information for students and the official university noticeboards to be aware of changes to the information contained herein. The inclusion in a publication of details of a course in no way creates an obligation on the part of the university to teach it in any given year, or to teach it in the manner described. The university reserves the right to discontinue or vary courses at any time without notice. Students should always check with the relevant faculty officers when planning their courses. Some courses and units are described which may alter or may not be offered due to insufficient enrolments or changes to teaching personnel.



# **Course progression map for 2016 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 - Data Science**

|                        | Bachelor of Science                                     |   | Bachelor of Computer Science                                |  |
|------------------------|---|---|---|--|
| <b>YEAR 1</b><br>Sem 1 | Science major<br>Approved level 1<br>science sequence 1 | Approved level 1<br>Science sequence 2  | FIT1045<br>Introduction to<br>algorithms and<br>programming | MAT1830<br>Discrete mathematics              |
| YEAR 1<br>Sem 2        | Science major Approved<br>level 1 sequence 1            | Approved level 1<br>science sequence 2  | FIT1008<br>Introduction to<br>computer science              | MAT1841<br>Continuous<br>mathematics         |
| YEAR 2<br>Sem 1        | Science major level 2                                   | Science elective level 1  | FIT1047<br>Computer systems,<br>networks and security       | FIT2004<br>Algorithms and data<br>structures |
| <b>YEAR 2</b><br>Sem 2 | Science major level 2                                   | SCI2010 Scientific<br>practice and<br>communication or<br>SCI2015 Scientific<br>practice and<br>communication<br>(advanced) | FIT2014<br>Theory of<br>computation                         | FIT1043<br>Introduction to data<br>science   |
| YEAR 3<br>Sem 1        | Science major level 3                                   | Science elective  | FIT2094<br>Databases  | FIT2086<br>Modelling for data<br>science     |
| YEAR 3<br>Sem 2        | Science major level 3                                   | Science elective level 2<br>or 3  | FIT1049<br>IT Professional<br>Practice                      | FIT3179<br>Data visualisation                |
| YEAR 4<br>Sem 1        | Science major level 3                                   | Science elective level 2<br>or 3  | FIT3163<br>DS project 1                                     | Approved L3 Data<br>Science Elective         |
| YEAR 4<br>Sem 2        | Science major level 3                                   | Science elective level 2<br>or 3  | FIT3164<br>DS project 2                                     | Approved L3 Data<br>Science Elective         |

Source: Monash University 2016 Handbook – http://www.monash.edu.au/pubs/2016handbooks/maps/map-s2004.pdf CRICOS Provider Number: 00008C

While the information provided herein was correct at the time of viewing and/or printing, Monash University reserves the right to alter procedures, fees and regulations should the need arise. Students should carefully read all official correspondence, other sources of information for students and the official university noticeboards to be aware of changes to the information contained herein. The inclusion in a publication of details of a course in no way creates an obligation on the part of the university to teach it in any given year, or to teach it in the manner described. The university reserves the right to discontinue or vary courses at any time without notice. Students should always check with the relevant faculty officers when planning their courses. Some courses and units are described which may alter or may not be offered due to insufficient enrolments or changes to teaching personnel.