

BACHELOR OF COMPUTER SCIENCE (C2001) – 2018

Data Science Specialisation

Year 1 (48 credit points)

First Semester	FIT1045 Algorithms and programming fundamentals in python	FIT1047 Introduction to computer systems, networks and security	MAT1830 Discrete mathematics for computer science	Elective
Second Semester	FIT1008 Introduction to computer science [FIT1045]	FIT1043 Introduction to data science [Completion of Year 12 Maths]	MAT1841 Continuous mathematics for computer science	Elective

Year 2 (48 credit points)

First Semester	FIT2004 Algorithms and data structures [FIT1008 & 6 pts L1 Maths]	FIT2094 Databases [One of FIT1045, FIT1048 or FIT1051]	Elective	Elective
Second Semester	FIT2014 Theory of computation [FIT1045 & MAT1830]	FIT1049 IT professional practice [12 pts FIT study]	FIT2086 Modelling for data science [FIT1045 & MAT1830 & one of MAT1841, MAT2003, MTH1030 or MTH1035]	Elective

Year 3 (48 credit points)

First Semester	FIT3163 Data science project 1 [FIT1043, FIT1049, FIT2004, FIT2086, FIT2094]	Level 3 Data Science Approved Elective*	Elective	Elective
Second Semester	FIT3164 Data science project 2 [FIT3161]	Level 3 Data Science Approved Elective*	FIT3179 Data visualisation [24pts FIT study]	Elective

* Approved Data Science Electives:

FIT3003 Business intelligence and data warehousing
 FIT3139 Computational science
 FIT3152 Data analytics
 FIT3154 Advanced data analysis

Note that not all units will be taught in every year and some will be offered only in alternate years

Notes

Credit points	Unless specified, all units are worth 6 credit points Bachelor of Computer Science 24 units x 6 credit points = Total of 144 credit points
Year Level Requirements	1) Normally 48 points, and a maximum of 60 points, of first year level units will be counted; 2) At least 36 points must be completed at third year level.
Unit requisites	All pre-requisite and co-requisite requirements must be undertaken in order to be able to enrol into a specific unit
Duration of degree	3 years full-time, 6 years part-time
Time limit	Time limit = 8 years. Students have eight years in which to complete this award from the time they commence first year. Periods of intermission are counted as part of the eight years.
Monash University handbook	Students should follow the course requirements for the year the course was commenced http://monash.edu/pubs/2018handbooks/courses/index-byfaculty-it.html