BACHELOR OF COMPUTER SCIENCE (C2001) - 2016 Data Science Specialisation

Year 1 (48 credit points)

First	FIT1045	FIT1047	MAT1830	Elective
Semester	Introduction to algorithms and	Introduction to computer systems,	Discrete mathematics for computer science	
	programming	networks and security	Tor computer science	
Second	FIT1008	FIT1043	MAT1841	Elective
Semester	Introduction to	Introduction to data	Continuous	
	computer science	science	mathematics for	
	[FIT1045]		computer science	

Year 2 (48 credit points)

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

Year 3 (48 credit points)

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

* 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/2016handbooks/courses/index-byfaculty-it.html		