BACHELOR OF COMPUTER SCIENCE (C2001) – 2017

Advanced Computer Science Specialisation

Year 1 (48 credit points)

First	FIT1045	FIT1047	MAT1830	Elective
Semester	Algorithms and	Introduction to	Discrete mathematics	
	programming	computer systems,	for computer science	
	fundamentals in python	networks and security		
Second	FIT1008	FIT1049	MAT1841	Elective
Semester	Introduction to	IT professional practice	Continuous	
Semester	Introduction to computer science	IT professional practice [12 pts FIT study]	Continuous mathematics for	

Year 2 (48 credit points)

rear 2 (40 create points)				
First	FIT2004	FIT2099	Elective	Elective
Semester	Algorithms and data	Object-oriented design		
	structures	and implementation		
	[FIT1008]	[One of FIT1045, FIT1048,		
		FIT1051, FIT1008]		
Second	FIT2014	FIT2102	Elective	Elective
Semester	Theory of computation	Programming		
		paradigms		
	[FIT1045 & MAT1830]	[FIT1008]		

Year 3 (48 credit points)

	p ,			
First	FIT3161	FIT3171	Level 3	Elective
Semester	Computer science project 1 [FIT2004]	Databases [One of FIT1045, FIT1048, FIT1051 or ENG1003]	Computer Science Approved Elective*	
Second	FIT3162	FIT3155	FIT3143	Elective
Semester	Computer science	Advanced data	Parallel computing	
	project 2	structures and		
	[FIT3161]	algorithms [FIT2004]	[FIT2004]	

* Approved Computer Science Electives:

FIT3031 Information and network security FIT3142 Distributed computing

FIT3077 Software engineering: architecture and design FIT3146 Emergent technologies and interfaces

FIT3080 Intelligent systems FIT3152 Data analytics

FIT3081 Image processing FIT3159 Computer architecture FIT3088 Computer graphics FIT3165 Computer networks FIT3094 Artificial life, artificial intelligence and virtual FIT3173 Software security

environments FIT3175 Usability

FIT3139 Computational science MTH3170 Network mathematics

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/2017handbooks/courses/index-byfaculty-it.html	

C2001: June 2017