BACHELOR OF COMPUTER SCIENCE ADVANCED (HONOURS) (C3001) – 2017

Year 1 (48 credit points)

First	FIT1045	FIT1047	MAT1830	Elective
Semester	Algorithms and programming fundamentals in python	Introduction to computer systems, networks and security	Discrete mathematics for computer science	
Second	FIT1008	FIT1041	MAT1841	Elective
Semester	Introduction to	Research project 1	Continuous	
	computer science		mathematics for	
	[FIT1045]		computer science	

Year 2 (48 credit points)

Summer Semester	Elective			
First	FIT2004	FIT2083	Elective	Elective
Semester	Algorithms and data structures [FIT1008]	Research methods in computer science [24 pts of level 1 FIT]		
Second	FIT2014	FIT2102	FIT2082	Elective
Semester	Theory of computation	Programming paradigms	Research project 2 [FIT1041 and FIT2083]	
	[FIT1045 and MAT1830]	[FIT1008]		

Year 3 (48 credit points)

First Semester	FIT3153 Research-based learning OR FIT3045 Industry-based learning (18 points)			
Second Semester	FIT3155 Advanced data structures and	FIT3143 Parallel computing	FIT3171 Databases	Level 3 Computer Science Approved Elective*
	algorithms [FIT2004 and FIT2102]	[FIT2004]	[FIT2099]	

Year 4 (48 credit points)

First	FIT4441	FIT4442	Level 4/5	Elective
Semester	Honours thesis – part 1	Honours thesis – part 2	Computer Science Approved Elective	
Second	FIT4443	FIT4444	Level 4/5	Elective
Second Semester	FIT4443 Honours thesis – part 3	FIT4444 Honours thesis – final	Level 4/5 Computer Science	Elective

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
FIT3088 Computer graphics
FIT3094 Artificial life, artificial intelligence and virtual
FIT3094 Artificial life, artificial intelligence and virtual
FIT3095 Use hilling

environments FIT3175 Usability

FIT3139 Computational science MTH3170 Network mathematics Note that not all units will be taught in every year and come will be offered only in alternate years

Notes

Credit points	Unless specified, all units are worth 6 credit points Bachelor of Computer Science Advanced (Honours) 32 units x 6 credit points = Total of 192 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	4 years full-time, 8 years part-time
Time limit	Time limit = 10 years. Students have ten years in which to complete this award from the time they commence first year. Periods of intermission are counted as part of the ten 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

C3001: October 2016