

# BACHELOR OF INFORMATION TECHNOLOGY (C2000) – 2017

## Software Development major

### Year 1 (48 credit points)

<b>First Semester</b>	<b>FIT1045</b> Algorithms and programming fundamentals in python [VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010] <b>OR FIT1048</b> Fundamentals of C++ <b>OR FIT1051</b> Programming fundamentals in java	<b>FIT1050</b> Web fundamentals	<b>FIT1047</b> Introduction to computer systems, networks and security	<b>Elective</b>
<b>Second Semester</b>	<b>FIT1049</b> IT professional practice [12 pts FIT study]	<b>FIT Elective 1</b>	<b>Elective</b>	<b>Elective</b>

### Year 2 (48 credit points)

<b>First Semester</b>	<b>FIT2001</b> Systems development [24pts FIT study]	<b>FIT2094</b> Databases [One of FIT1045, FIT1048 or FIT1051]	<b>FIT Elective 2</b>	<b>Elective</b>
<b>Second Semester</b>	<b>FIT2002</b> IT project management  [36pts level 1 study including one of (FIT1040, FIT1045, FIT1048, FIT1051, ENG1003) and FIT1049]	<b>FIT2104</b> Web database interface [FIT2094] <b>OR</b> <b>FIT2081</b> Mobile application development [FIT1045, FIT1048 or FIT1051]	<b>Elective</b>	<b>Elective</b>

### Year 3 (48 credit points)

<b>First Semester</b>	<b>FIT3047</b> Industry experience studio project 1 [Refer to Handbook]	<b>Software Development unit</b> (choose from list)	<b>FIT3175</b> Usability  [FIT1045, FIT1048 or FIT1051]	<b>Elective</b>
<b>Second Semester</b>	<b>FIT3048</b> Industry experience studio project 2 [FIT3047]	<b>Software Development unit</b> (choose from list)	<b>FIT Elective 3</b>	<b>Elective</b>

### Software Development units:

FIT3077 Software engineering: architecture and design	FIT3173 Software security
FIT3134 IT-based entrepreneurship	FIT3176 Advanced database design
FIT3146 Emergent technologies and interfaces	FIT3178 Advanced mobile apps
FIT3157 Advanced web design	

### Software Development Extended Major:

- a) The remaining unit from those not completed in the major above:
- FIT2104 Web database interface OR  
FIT2081 Mobile application development
- b) Two of the above Level 3 Software Development units
- c) One unit at level 2 or 3 from the Software Development units above or from the following:
- FIT2095 eBusiness software technologies  
FIT2099 Object-oriented design and implementation  
FIT2101 Software engineering process and management  
FIT2100 Operating systems  
FIT2107 Software quality and testing

### Notes

<b>Credit points</b>	Unless specified, all units are worth 6 credit points Bachelor of Information Technology 24 units x 6cp = Total of 144 credit points
<b>Year Level Requirements</b>	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.
<b>Unit requisites</b>	All pre-requisite and co-requisite requirements must be undertaken in order to be able to enrol into a specific unit
<b>Duration of degree</b>	3 years full-time, 6 years part-time
<b>Time limit</b>	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.
<b>Monash University handbook</b>	Students should follow the course requirements for the year the course was commenced <a href="http://monash.edu/pubs/2017handbooks/courses/index-byfaculty-it.html">http://monash.edu/pubs/2017handbooks/courses/index-byfaculty-it.html</a>