Bachelor of Information Technology and Bachelor of Science (C2003) – 2022 Business information systems major

Year 1	(48 crec	lit po	ints)	
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First	FIT1051	FIT1006	Science major approved level	Approved level 1 science
Semester	Programming fundamentals in java	Business information analysis	1 sequence 1	sequence 2
		[Yr 12 Maths or MTH1010]		
Second	FIT1047	FIT Elective 1	Science major approved level	Approved Level 1 science
Semester	Introduction to computer	OR	1 sequence 1	sequence 2
	systems, networks and	FIT1013*		
	security	Digital futures: IT for		
		business		

Year 2 (48 credit points)

First	FIT1049	FIT2081	Science major - level 2	One of SCI1020, STA1010,
Semester	IT professional practice	Mobile applications		MTH1020, MTH1030 or
		development		MTH1035 [or level one
	[12 pts FIT study]	[One of FIT1045, FIT1048 or		Science elective if already
		FIT1051]		taken as part of another
		OR		sequence]
		FIT2095		
		eBusiness software		
		technologies		(Can be taken in semester 1 or 2)
		[FIT1051]		
Second	FIT2094	FIT2090	Science major - level 2	SCI1000
Semester	Databases	Business information		Science communication to
		systems and processes		influence change
	[One of FIT1045, FIT1048 or			
	FIT1051]	[24pts FIT or BusEco study]		(Can be taken in semester 1 or 2)

Year 3 (48 credit points)

1 Cal 3 (40 C	realt politis)			
First	FIT2001	FIT3174	Science major - level 3	Science elective – level 2 or 3
Semester	Systems	IT strategy and governance		
	development	[24pts FIT level 2 study]		
		OR		
	[24pts FIT study]	FIT3138		
	[2 .pts stady]	Real time enterprise systems		
		[12 pts Level 2 FIT, SCI, ENG		
		study]		
Second	FIT2002	FIT3003	Science major - level 3	Science elective – level 2 or 3
Semester	IT project management	Business intelligence and		
		data warehousing		
	[36pts level 1 study including	[FIT2094]		
	one of FIT1045, FIT1048,	OR		
	FIT1051, ENG1003]	FIT3152		
		Data analytics		
		[FIT1006]		

Year 4 (48 credit points)

	· · · · · · · · · · · · · · · · · · ·				
First	FIT3047*	FIT Elective 2	Science major - level 3	Science elective – level 2 or 3	
Semester	Industry experience studio				
	project 1				
	[Refer to <u>Handbook</u>]				
Second	FIT3048*	FIT3158	Science major - level 3	Science elective – level 2 or 3	
Semester	Industry experience studio	Business decision models			
	project 2	[24pts FIT or BusEco study and			
		one of FIT1006, ETC1000,			
	[FIT3047]	STA1010]			

* Industry Based Learning (IBL)

- Students accepted into the IBL program will replace FIT3047 and FIT3048 and an FIT Elective on the IT side of their degree with FIT3045 Industry based learning (18 points).
- IBL placements will normally be completed in semester 2 of third year or semester 1 of fourth year.
- Students completing an IBL placement must overload in one semester OR complete a summer unit in order to complete the course in 4
 vears.
- IBL students or any students considering IBL completing the BIS major will need to complete FIT1013 in semester 2.

Bachelor of Information Technology and Bachelor of Science (C2003) – 2022 Computer Networks and Security major

	er Networks and Secu			
Year 1 (48 First Semester	FIT1045 Algorithms and programming fundamentals in python [VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010] OR FIT1048 Fundamentals of C++ OR FIT1051	FIT1047 Introduction to computer systems, networks and security	Science major approved level 1 sequence 1	Approved level 1 science sequence 2
	Programming fundamentals			
	in java			
Second	FIT1049	FIT Elective 1	Science major	Approved Level 1 science
Semester	IT professional practice		approved level 1 sequence 1	sequence 2
Voor 2 /49	[12 pts FIT study]			
First	3 credit points) FIT2001	FIT2093	Science major - level 2	One of SCI1020, STA1010,
Semester	Systems development [24pts FIT study] OR	Introduction to cyber security	Science major - level 2	MTH1020, MTH1030 or MTH1035 [or level one Science elective if already taken as part of another
	FIT2099 Object-oriented design and implementation [One of FIT1045, FIT1048 or FIT1051]	[FIT1047 and one of FIT1045, FIT1048 or FIT1051]		sequence] (Can be taken in semester 1 or 2
Second	FIT2094	FIT2100	Science major - level 2	SCI1000
Semester	Databases [One of FIT1045, FIT1048 or FIT1051]	Operating systems [FIT1047]	Science major rever 2	Science communication to influence change (Can be taken in semester 1 or 2
Year 3 (48	3 credit points)			
First Semester	FIT Elective 2*	FIT3165 Computer networks [FIT1047 and one of FIT1045, FIT1048 or FIT1051]	Science major - level 3	Science elective – level 2 or 3
Second Semester	FIT2002 IT project management [36pts level 1 study including one of FIT1045, FIT1048, FIT1051, ENG1003]	FIT3031 Network security [FIT1047 and FIT2093]	Science major - level 3	Science elective – level 2 or 3
Year 4 (48	3 credit points)			
First	FIT3047*	FIT3173	Science major - level 3	Science elective – level 2 or 3
Semester	Industry experience studio project 1 [Refer to <u>Handbook]</u>	Software security [One of FIT1045 or FIT1048 or FIT1051]		
Second Semester	FIT3048* Industry experience studio project 2 [FIT3047]	FIT2081 Mobile applications development [One of FIT1045 or FIT1048 or FIT1051] OR FIT3142 Distributed computing [FIT2100 and FIT3165]	Science major - level 3	Science elective – level 2 or 3

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- IBL placements will normally be completed in semester 2 of third year or semester 1 of fourth year.

[FIT2100 and FIT3165]

OR FIT3168 IT forensics [FIT2093]

• Students completing an IBL placement must overload in one semester OR complete a summer unit in order to complete the course in 4 years.

Bachelor of Information Technology and Bachelor of Science (C2003) – 2022 Games development major

Fundamentals of C++

First Semester	FIT1047 Introduction to computer systems, networks and security	FIT1033 Foundations of 3D	Science major approved level 1 sequence 1	Approved level 1 science sequence 2
Second	FIT2073	FIT1048	Science major approved level	Annroyed Level 1 science

1 sequence 1

sequence 2

Game design studio 1

Semester

Year 1 (48 credit points)

First	FIT2001	FIT2096	Science major - level 2	One of SCI1020, STA1010,
Semester	Systems	Games programming 1		MTH1020, MTH1030 or
	development			MTH1035 [or level one
	[24pts FIT study]	[FIT1048]		Science elective if already
	OR			taken as part of another
	FIT2099			sequence]
	Object-oriented design and			
	implementation			
	[One of FIT1045, FIT1048 or			(Can be taken in semester 1 or 2)
	FIT1051]			
Second	FIT1049	FIT2097	Science major - level 2	SCI1000
Semester	IT professional practice	Games programming 2		Science communication to
				influence change
	[12 pts FIT study]	[FIT2096]		
				(Can be taken in semester 1 or 2)

Year 3 (48 credit points)

100.0(10.0	Teal 3 (40 credit points)				
First	FIT2094	FIT3094	Science major - level 3	Science elective – level 2 or 3	
Semester	Databases	Artificial life, artificial			
		intelligence and virtual			
	[One of FIT1045, FIT1048 or	environments			
	FIT1051]	[FIT2096]			
Second	FIT2002	FIT3145	Science major - level 3	Science elective – level 2 or 3	
Semester	IT project management	Game design studio 2			
	[36pts level 1 study including				
	one of FIT1045, FIT1048,				
	FIT1051, ENG1003]	[FIT2073 & FIT2096]			

Year 4 (48 credit points)

- 1	<u>_</u>				
	First	FIT3039*	FIT Elective*	Science major - level 3	Science elective – level 2 or 3
	Semester	Studio project 1			
		[(FIT2091 and (FIT2087 or			
		FIT2098)) or (FIT2073 and			
		FIT2096)]			
	Second	FIT3040*	FIT3146	Science major - level 3	Science elective – level 2 or 3
	Semester	Studio project 2	Maker lab		
		[FIT3039]	One of FIT1045, FIT1048 or		
			FIT1051, ENG1003 and 90pts of		
			study]		
			Studyj		

* Industry Based Learning (IBL)

- Students accepted into the IBL program will replace FIT3039 and FIT3040 and an FIT Elective on the IT side of their degree with FIT3045 Industry based learning (18 points).
- IBL placements will normally be completed in semester 2 of third year or semester 1 of fourth year.
- Students completing an IBL placement must overload in one semester OR complete a summer unit in order to complete the course in 4 years.

Bachelor of Information Technology and Bachelor of Science (C2003) – 2022 Interactive media major

Year 1 (48	credit points)			
First	FIT1045	FIT1033	Science major approved level	Approved level 1 science
Semester	Algorithms and programming fundamentals in python [VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010] OR FIT1048 Fundamentals of C++ OR FIT1051 Programming fundamentals in java	Foundations of 3D	1 sequence 1	sequence 2
Second	FIT1047	FIT1046	Science major approved level	Approved Level 1 science
Semester	Introduction to computer	Interactive media	1 sequence 1	sequence 2
	systems, networks and	foundations		
	security			
	credit points)	FIT2004	Calamaa maalan Jawa 12	One of CC1403C CT44040
First Semester	FIT1049 IT professional practice	FIT2091 Interactive media studio 1	Science major - level 2	One of SCI1020, STA1010, MTH1020, MTH1030 or
semester	[12 pts FIT study]	[FIT1046]		MTH1035 (or level one Science elective if already taken as part of another sequence] (Can be taken in semester 1 or 2)
Second	FIT2094	FIT2092	Science major - level 2	SCI1000
Semester	Databases	Interactive media studio 2	Selection major level =	Science communication to
	[One of FIT1045, FIT1048 or			influence change
	FIT1051]	[FIT2091]		(Can be taken in semester 1 or 2)
	credit points)			
First	FIT2001	FIT2087	Science major - level 3	Science elective – level 2 or 3
Semester	Systems	3D character animation		
	development	[FIT1033] OR		
	[24pts FIT study] OR	FIT2098		
	FIT2099	Virtual and augmented		
	Object-oriented design and	reality		
	implementation [One of FIT1045, FIT1048 or FIT1051]			
Second	FIT2002	FIT3172	Science major - level 3	Science elective – level 2 or 3
Semester	IT project management	Sonics		
	[36pts level 1 study including			
	one of FIT1045, FIT1048, FIT1051, ENG1003]	[24 points of level 2]		
Vear 4 140	credit points)			
First	FIT3039	FIT3169	Science major - level 3	Science elective – level 2 or 3
Semester	Studio project 1	Immersive environments	Science major - level 3	Science elective - level 2 UI 3
	[(FIT2091 and (FIT2087 or			
	FIT2098)) or (FIT2073 and	[FIT1033]		
Co	FIT2096)]		Colone and the LO	Calaman ala III II II II
Second	FIT3040	FIT3146	Science major - level 3	Science elective – level 2 or 3
Semester	Studio project 2	Maker lab [One of FIT1045, FIT1048 or		
	[FIT3039]	FIT1051, ENG1003 and 90pts of		
	<u> </u>	study]		

Industry Based Learning (IBL)

- Students accepted into the IBL program will need to discuss their unit enrolment on the IT side of the degree with the Faculty. Completing an IBL placement with the IM major may require completing an additional unit above the 192 points required for the degree
- IBL placements will normally be completed in semester 2 of third year or semester 1 of fourth year.
- Students completing an IBL placement must overload in one semester OR complete a summer unit in order to complete the course in 4
 years.

Bachelor of Information Technology and Bachelor of Science (C2003) - 2022

Software	Software development major					
Year 1 (48 credit points)						
First	FIT1045	FIT1050	Science major approved level	Approved level 1 science		
Semester	Algorithms and programming fundamentals in python [VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010] OR FIT1048 Fundamentals of C++ OR FIT1051 Programming fundamentals in java	Web fundamentals	1 sequence 1	sequence 2		
Second	FIT1047	FIT Elective 1	Science major approved level	Approved Level 1 science		
Semester	Introduction to computer		1 sequence 1	sequence 2		
	systems, networks and					
	security					
Year 2 (48 credit points)						
First	FIT2001	FIT2094	Science major - level 2	One of SCI1020, STA1010,		
Semester	Systems	Databases		MTH1020, MTH1030 or		
	development [24pts FIT study]	[One of FIT1045, FIT1048 or FIT1051]		MTH1035 [or level one Science elective if already taken as part of another sequence] (Can be taken in semester 1 or 2)		
Second	FIT1049	FIT2104	Science major - level 2	SCI1000		
Semester	IT professional practice [12 pts FIT study]	Web database interface [FIT2094] OR FIT2081 Mobile application development [FIT1045, FIT1048 or FIT1051]	·	Science communication to influence change (Can be taken in semester 1 or 2)		
	credit points)					
First Semester	FIT Elective 2	FIT3175 Usability [FIT1045, FIT1048 or FIT1051]	Science major - level 3	Science elective – level 2 or 3		
Second Semester	FIT2002 IT project management [36pts level 1 study including one of FIT1045, FIT1048, FIT1051, ENG1003]	FIT Elective 3*	Science major - level 3	Science elective – level 2 or 3		
	credit points)					
First Semester	FIT3047* Industry experience studio project 1 [Refer to Handbook]	Software Development unit (choose from list)	Science major - level 3	Science elective – level 2 or 3		
Second Semester	FIT3048* Industry experience studio	Software Development unit (choose from list)	Science major - level 3	Science elective – level 2 or 3		

Software Development units:

project 2 [FIT3047]

FIT3077 Software engineering: architecture and design FIT3173 Software security FIT3134 IT-based entrepreneurship or BEX3411 Entrepreneurship FIT3146 Maker lab

FIT3176 Advanced database design FIT3178 iOs app development

FIT3157 Advanced web design

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- Students completing an IBL placement must overload in one semester OR complete a summer unit in order to complete the course in 4 years.

Bachelor of Science Majors and Sequences

For information on Science majors and approved sequences, refer to https://www.monash.edu/science/current-students/manage-your-science-studies

Notes

Crodit noints	Unless specified, all units are worth 6 credit points Bachelor of Information Technology and Bachelor of Science 32 units x 6cp = Total of 192 credit points		
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.		
	iversity Students should follow the course requirements for the year the course was commenced https://handbook.monash.edu/browse/By%20Faculty/FacultyofInformationTechnology		