# Bachelor of Information Technology and Bachelor of Science (C2003) – 2023 Business information systems major

Year 1	(48 cred	lit points	)
--------	----------	------------	---

First	FIT1045	FIT1006	Science major approved level	Approved level 1 science
Semester	Introduction to	Business information analysis	1 sequence 1	sequence 2
	programming			
		[Yr 12 Maths or MTH1010]		
Second	FIT1047	FIT1051	Science major approved level	Approved Level 1 science
			, ,,	''
Semester	Introduction to computer	Programming fundamentals	1 sequence 1	sequence 2
	systems, networks and	in java		
	security			

## Year 2 (48 credit points)

First	FIT1049	FIT2081	Science major - level 2	One of <b>SCI1020, STA1010,</b>
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		sequencel
		FIT2095		
		eBusiness software		
		technologies		(Can be taken in semester 1 or 2)
		[FIT1051]		(can be taken in semiester 1 or 2)
Second	FIT Elective 1	FIT2090	Science major - level 2	SCI1000
Semester	OR	Business information		Science communication to
	FIT1013*	systems and processes		influence change
	Digital futures: IT for			
	business	[24pts FIT or BusEco study]		(Can be taken in semester 1 or 2)

### Year 3 (48 credit points)

First	FIT2094	FIT2001	Science major - level 3	Science elective – level 2 or 3
Semester	Databases	Systems	-	
		development		
	[One of FIT1045, FIT1048 or			
	FIT1051]	[24pts FIT 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*	FIT3174	Science major - level 3	Science elective – level 2 or 3
Semester	Industry experience studio	IT strategy and governance		
	project 1	[24pts FIT level 2 study]		
	[Refer to <u>Handbook</u> ]	OR		
		FIT3138		
		Real time enterprise systems		
		[12 pts Level 2 FIT, SCI, ENG		
		study]		
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 and FIT3152/FIT3003 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) – 2023 Cybersecurity major

Year	1	(48	cred	lit	points	١

First	FIT1045	FIT1047	Science major	Approved level 1 science
Semester	Introduction to programming	Introduction to computer systems, networks and security	approved level 1 sequence 1	sequence 2
Second	FIT1049	FIT Elective 1	Science major	Approved Level 1 science
Semester	IT professional practice [12 pts FIT study]		approved level 1 sequence 1	sequence 2

## Year 2 (48 credit points)

First	FIT2081	FIT2093	Science major - level 2	One of <b>SCI1020, STA1010,</b>
Semester	Mobile applications	Introduction to cyber		MTH1020, MTH1030 or
	development	security		MTH1035 [or level one
	[One of FIT1045 or FIT1048 or			Science elective if already
	FIT1051]			taken as part of another
		[FIT1047 and one of FIT1045,		sequence
		FIT1048 or FIT1051		(Can be taken in semester 1 or 2)
Second	FIT2094	FIT2100	Science major - level 2	SCI1000
Semester	Databases	Operating systems		Science communication to
				influence change
	[One of FIT1045, FIT1048 or	[FIT1047]		
	FIT1051]			(Can be taken in semester 1 or 2)

## Year 3 (48 credit points)

	FIT2001	Cubanagaunituumit	Colongo major Joval 2	Science elective – level 2 or 3
First		Cybersecurity unit	Science major - level 3	Science elective – level 2 or 3
Semester	Systems	(choose from list)		
	development			
	[24pts FIT study]			
	OR			
	FIT2099			
	Object-oriented design and			
	implementation			
	[One of FIT1045, FIT1048 or			
	FIT1051]			
Second	FIT2002	Cybersecurity unit	Science major - level 3	Science elective – level 2 or 3
Semester	IT project management	(choose from list)		
	[36pts level 1 study including			
	one of FIT1045, FIT1048,			
	FIT1051, ENG1003]			
Semester	[36pts level 1 study including one of FIT1045, FIT1048,	(choose from list)		

### Year 4 (48 credit points)

First	FIT3047*	Cybersecurity unit	Science major - level 3	Science elective – level 2 or 3
Semester	Industry experience studio	(choose from list)		
	project 1			
	[Refer to <u>Handbook</u> ]			
Second	FIT3048*	FIT Elective 2	Science major - level 3	Science elective – level 2 or 3
Semester	Industry experience studio			
	project 2			
	[FIT3047]			

## Cybersecurity units (choose 3)

FIT3031 Network security FIT3165 Computer networks FIT3168 IT forensics

FIT3173 Software security

## \* 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 years.

## Bachelor of Information Technology and Bachelor of Science (C2003) – 2023 Games and immersive media major

Year 1 (48 d	credit points)			
First	FIT1045	FIT1073	Science major approved level	Approved level 1 science
Semester	Introduction to programming	Game design	1 sequence 1	sequence 2
Second	FIT1047	FIT1033	Science major approved level	Approved Level 1 science
Semester	Introduction to computer	Foundations of 3D	1 sequence 1	sequence 2
	systems, networks and			
	security			

Year 2 (48 credit points)
---------------------------

First	FIT2001	FIT2098	Science major - level 2	One of <b>SCI1020, STA1010,</b>
Semester	Systems	Virtual and augmented		MTH1020, MTH1030 or
	development	reality		MTH1035 [or level one
	[24pts FIT study]			Science elective if already
	OR	[FIT1033]		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	FIT2145	Science major - level 2	SCI1000
Semester	IT professional practice	Game prototyping		Science communication to
		[FIT1073]		influence change
	[12 pts FIT study]			
				(Can be taken in semester 1 or 2)

## Year 3 (48 credit points)

Teal 3 (40	rear 3 (48 credit points)				
First	FIT2094	FIT2096	Science major - level 3	Science elective – level 2 or 3	
Semester	Databases	Games programming			
		[FIT1045]			
	[One of FIT1045, FIT1048 or	OR			
	FIT1051]	FIT2169			
		Immersive environments			
		[FIT1033]			
Second	FIT2002	Games and immersive	Science major - level 3	Science elective – level 2 or 3	
Semester	IT project management	media unit			
		(choose from list)			
	[36pts level 1 study including				
	one of FIT1045, FIT1048,				
	FIT1051, ENG1003]				

## Year 4 (48 credit points)

First	FIT3039*	Games and immersive	Science major - level 3	Science elective – level 2 or 3
Semester	Studio project 1 [FIT2145 and one of FIT2096 or	media unit (choose from list)		
	FIT2169 and 84 points of study]	·		
Second	FIT3040*	Games and immersive	Science major - level 3	Science elective – level 2 or 3
Semester	Studio project 2	media unit		
		(choose from list)		
	[FIT3039]			

## Games and immersive media units (choose 3)

FIT3187 3D character animation FIT3146 Maker lab FIT3172 Sonics FIT3097 Technical art

## \* 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
  vears.

## Bachelor of Information Technology and Bachelor of Science (C2003) – 2023 Software development major

Year 1 (48 credit point	s)
-------------------------	----

First Semester	FIT1045 Introduction to programming	FIT1050 Web fundamentals	Science major approved level 1 sequence 1	Approved level 1 science sequence 2
Second Semester	FIT1047 Introduction to computer systems, networks and security	FIT Elective 1	Science major approved level 1 sequence 1	Approved Level 1 science sequence 2

#### Year 2 (48 credit points)

First	FIT2001	FIT2094	Science major - level 2	One of <b>SCI1020, STA1010,</b>
Semester	Systems	Databases		MTH1020, MTH1030 or
	development			MTH1035 [or level one
		[One of FIT1045, FIT1048 or		Science elective if already
	[24pts FIT study]	FIT1051]		taken as part of another
	. , , , , , , , , , , , , , , , , , , ,			sequence] (Semester 1 or 2)
Second	FIT1049	FIT2104	Science major - level 2	SCI1000
Semester	IT professional practice	Web database interface		Science communication to
		[FIT2094]		influence change
	[12 pts FIT study]	OR		
		FIT2081		(Can be taken in semester 1 or 2)
		Mobile application		
		development		
	1	[FIT1045, FIT1048 or FIT1051]		

### Year 3 (48 credit points)

First	FIT Elective 2	FIT3175	Science major - level 3	Science elective – level 2 or 3
Semester		Usability		
		[FIT1045, FIT1048 or FIT1051]		
Second	FIT2002	FIT Elective 3*	Science major - level 3	Science elective – level 2 or 3
Semester	IT project management			
	[36pts level 1 study including			
	one of FIT1045, FIT1048,			
	FIT1051, ENG1003]			

## Year 4 (48 credit points)

	rear 4 (40 create points)				
First	FIT3047*	Software Development unit	Science major - level 3	Science elective – level 2 or 3	
Semester	Industry experience studio	(choose from list)			
	project 1				
	[Refer to <u>Handbook</u> ]				
Second	FIT3048*	Software Development unit	Science major - level 3	Science elective – level 2 or 3	
Semester	Industry experience studio	(choose from list)			
	project 2				
	[FIT3047]				

### Software Development units (choose 2)

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

FIT3173 Software security
FIT3176 Advanced database design
FIT3178 iOs app development

## \* 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 years.

## **Bachelor of Science Majors and Sequences**

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

Notes		
Credit points	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.	
Monash University Students should follow the course requirements for the year the course was commenced		
handbook	https://handbook.monash.edu/browse/By%20Faculty/FacultyofInformationTechnology	