

Bachelor of Information Technology and Bachelor of Science (C2003) – 2023

Business information systems major

Year 1 (48 credit points)

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

Year 2 (48 credit points)

First Semester	FIT1049 IT professional practice [12 pts FIT study]	FIT2081 Mobile applications development [One of FIT1045, FIT1048 or FIT1051] OR FIT2095 eBusiness software technologies [FIT1051]	Science major - level 2	One of SCI1020 , STA1010 , MTH1020 , MTH1030 or MTH1035 [or level one Science elective if already taken as part of another sequence] (Can be taken in semester 1 or 2)
Second Semester	FIT Elective 1 OR FIT1013* Digital futures: IT for business	FIT2090 Business information systems and processes [24pts FIT or BusEco study]	Science major - level 2	SCI1000 Science communication to influence change (Can be taken in semester 1 or 2)

Year 3 (48 credit points)

First Semester	FIT2094 Databases [One of FIT1045, FIT1048 or FIT1051]	FIT2001 Systems development [24pts FIT study]	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]	FIT3003 Business intelligence and data warehousing [FIT2094] OR FIT3152 Data analytics [FIT1006]	Science major - level 3	Science elective – level 2 or 3

Year 4 (48 credit points)

First Semester	FIT3047* Industry experience studio project 1 [Refer to Handbook]	FIT3174 IT strategy and governance [24pts FIT level 2 study] OR FIT3138 Real time enterprise systems [12 pts Level 2 FIT, SCI, ENG study]	Science major - level 3	Science elective – level 2 or 3
Second Semester	FIT3048* Industry experience studio project 2 [FIT3047]	FIT3158 Business decision models [24pts FIT or BusEco study and one of FIT1006, ETC1000, STA1010]	Science major - level 3	Science elective – level 2 or 3

* 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 years.
- 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 credit points)

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

Year 2 (48 credit points)

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

Year 3 (48 credit points)

First Semester	FIT2001 Systems development [24pts FIT study] OR FIT2099 Object-oriented design and implementation [One of FIT1045, FIT1048 or FIT1051]	Cybersecurity unit (choose from list)	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]	Cybersecurity unit (choose from list)	Science major - level 3	Science elective – level 2 or 3

Year 4 (48 credit points)

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

Cybersecurity units (choose 3)

FIT3031 Network security
FIT3165 Computer networks
FIT3168 IT forensics
FIT3173 Software security

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Bachelor of Information Technology and Bachelor of Science (C2003) – 2023

Games and immersive media major

Year 1 (48 credit points)

First Semester	FIT1045 Introduction to programming	FIT1073 Game design	Science major approved level 1 sequence 1	Approved level 1 science sequence 2
Second 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

Year 2 (48 credit points)

First Semester	FIT2001 Systems development [24pts FIT study] OR FIT2099 Object-oriented design and implementation [One of FIT1045, FIT1048 or FIT1051]	FIT2098 Virtual and augmented reality [FIT1033]	Science major - level 2	One of SCI1020 , STA1010 , MTH1020 , MTH1030 or MTH1035 [or level one Science elective if already taken as part of another sequence] (Can be taken in semester 1 or 2)
Second Semester	FIT1049 IT professional practice [12 pts FIT study]	FIT2145 Game prototyping [FIT1073]	Science major - level 2	SCI1000 Science communication to influence change (Can be taken in semester 1 or 2)

Year 3 (48 credit points)

First Semester	FIT2094 Databases [One of FIT1045, FIT1048 or FIT1051]	FIT2096 Games programming [FIT1045] OR FIT2169 Immersive environments [FIT1033]	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]	Games and immersive media unit (choose from list)	Science major - level 3	Science elective – level 2 or 3

Year 4 (48 credit points)

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

Games and immersive media units (choose 3)

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

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Bachelor of Information Technology and Bachelor of Science (C2003) – 2023

Software development major

Year 1 (48 credit points)

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

Year 3 (48 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

Year 4 (48 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 project 2 [FIT3047]	Software Development unit (choose from list)	Science major - level 3	Science elective – level 2 or 3

Software Development units (choose 2)

FIT3077 Software engineering: architecture and design	FIT3173 Software security
FIT3134 IT-based entrepreneurship or BEX3411 Entrepreneurship	FIT3176 Advanced database design
FIT3146 Maker lab	FIT3178 iOS app development

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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

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