

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

Business information systems major

Year 1 (48 credit points)

First Semester	FIT1051 Programming fundamentals in java	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	FIT Elective 1 OR FIT1013* Digital futures: IT for business	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	FIT2094 Databases [One of FIT1045, FIT1048 or FIT1051]	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	FIT2001 Systems development [24pts FIT study]	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	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]	FIT Elective 2	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 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.
- 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

Year 1 (48 credit points)

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 Programming fundamentals in java	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	FIT2001 Systems development [24pts FIT study] OR FIT2099 Object-oriented design and implementation [One of FIT1045, 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	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 credit points)

First Semester	FIT3047* Industry experience studio project 1 [Refer to Handbook]	FIT3173 Software security [One of FIT1045 or FIT1048 or FIT1051]	Science major - level 3	Science elective – level 2 or 3
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] OR FIT3168 IT forensics [FIT2093]	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.
- 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

Year 1 (48 credit points)

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 Semester	FIT2073 Game design studio 1	FIT1048 Fundamentals of C++	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]	FIT2096 Games programming 1 [FIT1048]	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]	FIT2097 Games programming 2 [FIT2096]	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]	FIT3094 Artificial life, artificial intelligence and virtual environments [FIT2096]	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]	FIT3145 Game design studio 2 [FIT2073 & FIT2096]	Science major - level 3	Science elective – level 2 or 3

Year 4 (48 credit points)

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

* 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 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 Programming fundamentals in java	FIT1033 Foundations of 3D	Science major approved level 1 sequence 1	Approved level 1 science sequence 2
Second Semester	FIT1047 Introduction to computer systems, networks and security	FIT1046 Interactive media foundations	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]	FIT2091 Interactive media studio 1 [FIT1046]	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]	FIT2092 Interactive media studio 2 [FIT2091]	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]	FIT2087 3D character animation [FIT1033] OR FIT2098 Virtual and augmented reality	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]	FIT3172 Sonics [24 points of level 2]	Science major - level 3	Science elective – level 2 or 3

Year 4 (48 credit points)

First Semester	FIT3039 Studio project 1 [(FIT2091 and (FIT2087 or FIT2098)) or (FIT2073 and FIT2096)]	FIT3169 Immersive environments [FIT1033]	Science major - level 3	Science elective – level 2 or 3
Second Semester	FIT3040 Studio project 2 [FIT3039]	FIT3146 Maker lab [One of FIT1045, FIT1048 or FIT1051, ENG1003 and 90pts of study]	Science major - level 3	Science elective – level 2 or 3

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 development major

Year 1 (48 credit points)

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 Programming fundamentals in java	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] (Can be taken in 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:

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
FIT3157 Advanced web design	

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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