

Bachelor of Information Technology and Bachelor of Science (C2003) – 2017

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 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 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 level one Science elective if already taken as part of another sequence]
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	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced)

Year 3 (48 credit points)

First Semester	FIT2001 Systems development [24pts FIT study]	FIT3174 IT strategy and governance [24pts FIT level 1 study and FIT1006 or ETC1000] OR FIT3138 Real time enterprise systems [12 pts FIT, SCI, ENG study]	Science major - level 3	Science elective
Second Semester	FIT2002 IT project management [36pts level 1 study including one of (FIT1040, FIT1045, FIT1048, FIT1051, ENG1003) and FIT1049]	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 [FIT1006]	Science major - level 3	Science elective – level 2 or 3

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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 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 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 level one Science elective if already taken as part of another sequence]
Second Semester	FIT2094 Databases [One of FIT1045, FIT1048 or FIT1051]	FIT2100 Operating systems [FIT1047 and one of FIT1045, FIT1048 or FIT1051]	Science major - level 2	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced)

Year 3 (48 credit points)

First Semester	FIT Elective 2	FIT3165 Computer networks [FIT2100]	Science major - level 3	Science elective
Second Semester	FIT2002 IT project management [36pts level 1 study including one of (FIT1040, FIT1045, FIT1048, FIT1051, ENG1003) and FIT1049]	FIT3031 Information and network security [FIT1047]	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]	Science major - level 3	Science elective – level 2 or 3

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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 sequence 2
Second Semester	FIT2073 Game design studio 1	FIT1048 Fundamentals of C++	Science major Approved level 1 sequence 1	Approved Level 1 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 level one Science elective if already taken as part of another sequence]
Second Semester	FIT1049 IT professional practice [12 pts FIT study]	FIT2097 Games programming 2 [FIT2096]	Science major - level 2	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced)

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
Second Semester	FIT2002 IT project management [36pts level 1 study including one of (FIT1040, FIT1045, FIT1048, FIT1051, ENG1003) and FIT1049]	FIT3145 Game design studio 2 [FIT2073]	Science major - level 3	Science elective – level 2 or 3

Year 4 (48 credit points)

First Semester	FIT3039 Studio project 1 [FIT2092 or (FIT2073 and FIT2096)]	FIT Elective	Science major - level 3	Science elective – level 2 or 3
Second Semester	FIT3040 Studio project 2 [FIT3039]	FIT3146 Emergent technologies and interfaces [24pts level 2 or 3 FIT study]	Science major - level 3	Science elective – level 2 or 3

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Multimedia 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	FIT1033 Foundations of 3D	Science major Approved level 1 sequence 1	Approved level 1 sequence 2
Second Semester	FIT1047 Introduction to computer systems, networks and security	FIT1046 Creative computing foundations	Science major Approved level 1 sequence 1	Approved Level 1 sequence 2

Year 2 (48 credit points)

First Semester	FIT1049 IT professional practice [12 pts FIT study]	FIT2091 Creative computing studio 1 [FIT1046]	Science major - level 2	One of SCI1020, STA1010, MTH1020, MTH1030 [or level one Science elective if already taken as part of another sequence]
Second Semester	FIT2087 Advanced 3D [FIT1033]	FIT2092 Creative computing studio 2 [FIT2091]	Science major - level 2	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced)

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]	FIT2094 Databases [One of FIT1045, FIT1048 or FIT1051]	Science major - level 3	Science elective
Second Semester	FIT2002 IT project management [36pts level 1 study including one of (FIT1040, FIT1045, FIT1048, FIT1051, ENG1003) and FIT1049]	FIT3156 Advanced visual effects [FIT2087 and FIT2092]	Science major - level 3	Science elective – level 2 or 3

Year 4 (48 credit points)

First Semester	FIT3039 Studio project 1 [FIT2092 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 Emergent technologies and interfaces [24pts level 2 or 3 FIT study]	Science major - level 3	Science elective – level 2 or 3

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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 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 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 level one Science elective if already taken as part of another sequence]
Second Semester	FIT1049 IT professional practice [12 pts FIT study]	FIT2104 Web database interface [FIT1050 and FIT1051 and FIT2094] OR FIT2081 Mobile application development [FIT1045, FIT1048 or FIT1051]	Science major - level 2	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced)

Year 3 (48 credit points)

First Semester	FIT Elective 2	FIT3175 Usability [FIT1045, FIT1048 or FIT1051]	Science major - level 3	Science elective
Second Semester	FIT2002 IT project management [36pts level 1 study including one of (FIT1040, FIT1045, FIT1048, FIT1051, ENG1003) and FIT1049]	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	FIT3176 Advanced database design
FIT3146 Emergent technologies and interfaces	FIT3178 Advanced mobile apps
FIT3157 Advanced web design	

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 http://monash.edu/pubs/2017handbooks/courses/index-byfaculty-it.html