

2010 Faculty of Engineering & IT Handbook DRAFT
 Bachelor of Information Technology DRAFT Degree Table

Unit of study	Credit points	A: Assumed knowledge P: Prerequisites C: Corequisites N: Prohibition	Session
<p>Candidates for the degree of Bachelor of Information Technology (BIT) are required to gain credit for 192 credit points from the units of study set out below. The selection of units must satisfy the degree rules in the Resolutions of the Faculty. In particular, all core units must be completed, along with an appropriate amount from the elective units of study as recommended by the Faculty. Candidates for the BIT degree must complete a stream in either Computer Science or Information Systems, or both, as described in the Tables below.</p> <p>Enrolment is subject to the following constraints:</p> <ol style="list-style-type: none"> At most 72 credit points accumulated from first year units (core and recommended electives) can be counted for degree completion. At least 84 credit points must be accumulated from 3000-level and above units (including 72cp of core, selected core and recommended electives as outlined in this table). Candidates in the BIT degree must maintain a credit average in each year of enrolment. If this level of result is not achieved candidates will be transferred to the BCST degree program. <p>Through this table, candidates may substitute an advanced equivalent for a non-advanced unit mentioned. They may also substitute an appropriate unit from the Advanced Engineering program of the Faculty of Engineering, or the Talented Student Program of the Faculty of Science, if they are eligible to enrol in such units.</p>			
(i) Stream in Computer Science			
First year core units of study for CS stream			
ENGG1805 Professional Engineering and IT	6		Semester 1
ELEC1601 Foundations of Computer Systems	6	A HSC Mathematics extension 1 or 2 N COMP2001 Computer Systems, COMP2901 Computer Systems (Adv).	Semester 2
INFO1103 Introduction to Programming	6	A HSC Mathematics N SOFT (1001 or 1901) or COMP (1001 or 1901) or DECO2011	Semester 1 Semester 2
Note: INFO1903 Informatics (Adv) can be taken as an alternate core unit to INFO1103.			
INFO1105 Data Structures	6	A Programming, as for INFO1103 N INFO1905 or SOFT (1002 or 1902) or COMP (1002 or 1902 or 2160 or 2860 or 2111 or 2811 or 2002 or 2902)	Semester 2
Note: INFO1905 (advanced version) can be taken as an alternate to INFO1105.			
<p>Maths/Statistics requirement: A total of 18 credit points (with at least 6 credit points of 2000-level or above) of MATH and/or STAT units of are required for completion of this degree. All 1000-level and 2000-level units offered in the Science subject areas of Mathematics and Statistics can be taken to meet this requirement, however the School recommends students choose from the following units; MATH1001, MATH1002, MATH1003, MATH1004, MATH1005, MATH2069, MATH2063 and STAT2012. MATH and STAT units that are not taken as core units can be taken as other units.</p> <p>A full list of MATH and STAT units are available from Science Faculty handbook.</p>			
First year recommended elective units of study for CS stream			
ELEC1103 Fundamentals of Elec and Electronic Eng	6	A HSC Physics, HSC Mathematics extension 1 or 2 N ELEC1102 Foundations of Electronic Circuits.	Semester 1
INFO1003 Foundations of Information Technology	6	N INFO1000 or INFS1000	Semester 1 Semester 2
INFO1903 Informatics (Advanced)	6	A HSC Mathematics P UAI (or ATAR equivalent) sufficient to enter BCST(Adv), BIT or BSc(Adv), or portfolio of work suitable for entry <i>Note: Department permission required for enrolment</i>	Semester 1
Second Year core units of study for CS stream			
COMP2007 Algorithms and Complexity	6	A INFO1105, MATH1004 or MATH1904 N COMP (2907 or 3309 or 3609 or 3111 or 3811)	Semester 2
Note: COMP2907 (advanced version) can be taken as an alternate to COMP2007.			
COMP2129 Operating Systems and Machine Principles	6	A Programming, as from INFO1103 N SOFT (2130 or 2830 or 2004 or 2904) or COMP (2004 or 2904)	Semester 1
INFO2110 Systems Analysis and Modelling	6	A Experience with a data model as in INFO1003 or INFO1103 or INFS1000 N INFO (2810 or 2000 or 2900)	Semester 2
INFO2120 Database Systems 1	6	A Some exposure to programming and some familiarity with data model concepts such as taught in INFO1103 or INFO1003 or INFS1000 or INFO1903 N INFO (2820 or 2005 or 2905)	Semester 1
Note: INFO2820 (advanced version) can be taken as an alternate core unit to INFO2120.			
<p>Maths/Statistics requirement: A total of 18 credit points (with at least 6 credit points of 2000-level or above) of MATH and/or STAT units of are required for completion of this degree. All 1000-level and 2000-level units offered in the Science subject areas of Mathematics and Statistics can be taken to meet this requirement, however the School recommends students choose from the following units; MATH1001, MATH1002, MATH1003, MATH1004, MATH1005, MATH2069, MATH2063 and STAT2012. MATH and STAT units that are not taken as core units can be taken as other units.</p> <p>A full list of MATH and STAT units are available from Science Faculty handbook.</p>			



Unit of study	Credit points	A: Assumed knowledge P: Prerequisites C: Corequisites N: Prohibition	Session
Second year recommended elective units of study for CS stream			
INFO2315 Introduction to IT Security	6	A Computer literacy N NETS (3305 or 3605 or 3016 or 3916) or ELEC (5610 or 5616)	Semester 2
ISYS2140 Information Systems	6	A INFO1003 or INFS1000 N ISYS (2006 or 2007)	Semester 1
All 2000-level ELEC units of study are recommended.			
Third year core units of study for CS stream			
Students are required to complete at least 36 credit points of 3000-level from the core, selected core and recommended electives units of study listed here for the CS stream.			
INFO3402 Management of IT Projects and Systems	6	A INFO (2000 or 2110 or 2810 or 2900) N ISYS (3000 or 3012) or ELEC3606	Semester 1
INFO3600 Major Development Project (Advanced)	12	P INFO3402 N COMP3615 or ISYS3400 or SOFT (3300 or 3600 or 3200 or 3700) <i>Only available to students in BIT, BCST(Adv) or BSc(Adv)</i>	Semester 2
CS & IS double stream: Students enrolled in the double stream must also complete ISYS3401 Analytical Methods and Information Systems as a core unit of study from the CS stream.			
Third year selected core units of study for CS stream			
Students must complete at least 12 credit points from the following list.			
COMP3109 Programming Languages and Paradigms	6	A COMP2007	Semester 2
COMP3308 Introduction to Artificial Intelligence	6	A COMP2007 N COMP (3608 or 3002 or 3902)	Semester 1
COMP3608 Intro. to Artificial Intelligence (Adv)	6	P Distinction-level results in some 2nd year COMP or MATH or SOFT units. N COMP (3308 or 3002 or 3902)	Semester 1
COMP3419 Graphics and Multimedia	6	A COMP2007, MATH1002 N MULT (3306 or 3606 or 3019 or 3919 or 3004 or 3904) or COMP(3004 or 3904)	Semester 1
COMP3456 Computational Methods for Life Sciences	6	P INFO1105 and (COMP2007 or INFO2120) and 6 credit points from BIOL or MBLG	Semester 2
COMP3520 Operating Systems Internals	6	A COMP2129, INFO1105 N NETS (3304 or 3604 or 3009 or 3909) or COMP (3009 or 3909)	Semester 1
ELEC3506 Data Communications and the Internet	6	N NETS2150 Fundamentals of Networking, NETS2009 Network Organisation, NETS2909 Network Organisation (Adv), NETS3007 Network Protocols, NETS3907 Network Protocols (Advanced), ELEC3504 Data Communications and the Internet, ELEC4501 Data Communication Networks.	Semester 2
ELEC3609 Internet Software Platforms	6	P INFO1103, INFO2110, INFO2120 N EBUS4001 E-Business Engineering	Semester 2
INFO3220 Object Oriented Design	6	A INFO2110, INFO1105 N SOFT (3301 or 3601 or 3101 or 3801) or COMP (3008 or 3908)	Semester 1
INFO3315 Human-Computer Interaction	6	A INFO2110 N MULT (3307 or 3607 or 3018 or 3918) or SOFT (3102 or 3802) or COMP (3102 or 3802)	Semester 2
INFO3404 Database Systems 2	6	A Introductory database study such as INFO2120 or INFO2820 or INFO2005 or INFO2905. Students are expected to be familiar with SQL and the relational data model, and to have some programming experience. N INFO (3504 or 3005 or 3905) or COMP (3005 or 3905)	Semester 2
INFO3504 Database Systems 2 (Adv)	6	P Distinction-level result in INFO (2120 or 2820) or COMP (2007 or 2907) N INFO (3404 or 3005 or 3905) or COMP (3005 or 3905)	Semester 2
CS & IS double stream: Students must complete 24 credit points from the combination of selected core units for the CS stream and the IS stream, including at least 12 cp from the list above.			
Third year recommended elective units of study for CS stream			
ELEC3607 Embedded Computing	6	A ELEC1101 Foundations of Computer Systems, or ELEC1601 Professional Computer Engineering or ELEC2602 Digital System Design. P ELEC1601 and ELEC2602 N ELEC2601 Microcomputer Systems.	Semester 2
ELEC3610 E-Business Analysis and Design	6	P INFO2120 N EBUS3003 E-Business System Design, EBUS3001 Introduction to e-Commerce Systems	Semester 1
ISYS3401 Analytical Methods & Information Systems	6	A INFO2110, ISYS2140 N ISYS3015	Semester 1
All 3000-level and above ELEC units of study are recommended.			
Fourth year selected core units of study for CS stream			
Students in the BIT Pass degree must complete at least 48 credit points from this list.			
COMP5045 Computational Geometry	6	A Data structures, analysis of algorithms N COMP4045	Semester 1
COMP5046 Statistical Natural Language Processing	6	A Concepts of Linguistics, elementary statistics, AI techniques. N COMP4046	Semester 1
COMP5047 Pervasive Computing	6	A Networking concepts, operating system concepts, programming expertise. N NETS4047	Semester 2

Unit of study	Credit points	A: Assumed knowledge P: Prerequisites C: Corequisites N: Prohibition	Session
COMP5048 Information Visualisation	6	A Discrete mathematics, algorithms and complexity. N COMP4048	Semester 2
COMP5318 Knowledge Discovery and Data Mining	6	A COMP5138 and familiarity with basic statistics	Semester 1
COMP5338 Advanced Data Models	6	A COMP5138 or equivalent	Semester 2
COMP5348 Enterprise Scale Software Architecture	6	A INFO3220 or COMP5028 or equivalent.	Semester 1
COMP5416 Advanced Network Technologies	6	A ELEC3506 or equivalent	Semester 2
COMP5424 Information Technology in Biomedicine	6	A Basic programming skills	Semester 1
COMP5425 Multimedia Storage, Retrieval & Delivery	6	A Algorithms (equivalent to COMP5211).	Semester 1
COMP5426 Parallel and Distributed Computing	6	A Equivalent of COMP5116	Semester 1
ELEC4605 Computer Architecture	6	A Logic operations, theorems and Boolean algebra, data representation, number operations (binary, hex, integers and floating point), combinational logic analysis and synthesis, sequential logic, registers, counters, bus systems, state machines, simple CAD tools for logic design, basic computer organisation, the CPU, peripheral devices, software organisation, machine language, assembly language, operating systems, data communications and computer networks, microprocessors and their use, the architecture, programming and interfacing of microcomputers, peripheral devices and chips, data acquisition, device monitoring and control and other communications. P ELEC1601, ELEC 2602 and ELEC3607 N ELEC4601 Computer Design.	Semester 1
ELEC5508 Wireless Engineering	6	A Basic knowledge in probability and statistics, analog and digital communications, error probability calculation in communications channels, and telecommunications network. N ELEC5504 Cellular Radio Engineering, ELEC4504 Wireless Networks.	Semester 2
ELEC5509 Mobile Networks	6	A Basically, students need to know the concepts of data communications and mobile communications, which could be gained in one the following units of study: ELEC3505 Communications, ELEC3506 Data Communications and the Internet, or similar units. If you are not sure, please contact the instructor. N ELEC5501 Advanced Communication Networks.	Semester 1
ELEC5514 Networked Embedded Systems	6	A ELEC3607, ELEC3305, ELEC3506 and ELEC5508	Semester 2
ELEC5614 Real Time Computing	6	A SOFT2130 Software Construction (or SOFT2004 Software Development Methods 1) and ELEC3607 Embedded Computing (or ELEC2601 Microprocessor Systems). Ability to program in a high level language. N ELEC4602 Real Time Computing.	Semester 2
ELEC5616 Computer and Network Security	6	A A programming language, basic maths. N ELEC5611 Computer and Network Security, NETS3016 Computer and Network Security, NETS3916 Computer and Network Security (Adv).	Semester 1
ELEC5618 Software Quality Engineering	6	N SOFT3302 Software Quality Assurance	Semester 1
ELEC5619 Object Oriented Application Frameworks	6	A Java programming, and some web development experience are essential. Databases strongly recommended	Semester 2
INFO5991 Services Science Management and Eng	6	A INFO5990	Semester 1 Semester 2
INFO5992 Understanding IT Innovations	6	A INFO5990 N PMGT5875	Semester 1 Semester 2
ISYS5050 Knowledge Management Systems	6	A Information systems concepts, database concepts N ISYS4050 <i>Note: Department permission required for enrolment</i>	Semester 1
(ii) Stream in Information Systems			
First year core units of study for IS stream			
ENGG1805 Professional Engineering and IT	6		Semester 1
INFO1003 Foundations of Information Technology	6	N INFO1000 or INFS1000	Semester 1 Semester 2
Note: INFO1903 Informatics (Adv) can be taken as an alternate core unit to both INFO1103 and INFO1003.			
INFO1103 Introduction to Programming	6	A HSC Mathematics N SOFT (1001 or 1901) or COMP (1001 or 1901) or DECO2011	Semester 1 Semester 2
Note: INFO1903 Informatics (Adv) can be taken as an alternate core unit to both INFO1103 and INFO1003.			
INFO1105 Data Structures	6	A Programming, as for INFO1103 N INFO1905 or SOFT (1002 or 1902) or COMP (1002 or 1902 or 2160 or 2860 or 2111 or 2811 or 2002 or 2902)	Semester 2
Note: INFO1905 (advanced version) can be taken as an alternate core unit to INFO1105.			

Unit of study	Credit points	A: Assumed knowledge P: Prerequisites C: Corequisites N: Prohibition	Session
<p>Maths/Statistics requirement: A total of 18 credit points (with at least 6 credit points of 2000-level or above) of MATH and/or STAT units of are required for completion of this degree All 1000-level and 2000-level units offered in the Science subject areas of Mathematics and Statistics can be taken to meet this requirement, however the School recommends students choose from the following units; MATH1001, MATH1002, MATH1003, MATH1004, MATH1005, MATH2069, MATH2063 and STAT2012. MATH and STAT units that are not taken as core units can be taken as other units.</p> <p>A full list of MATH and STAT units are available from Science Faculty handbook.</p>			
First year recommended elective units of study for IS stream			
ELEC1103 Fundamentals of Elec and Electronic Eng	6	A HSC Physics, HSC Mathematics extension 1 or 2 N ELEC1102 Foundations of Electronic Circuits.	Semester 1
ELEC1601 Foundations of Computer Systems	6	A HSC Mathematics extension 1 or 2 N COMP2001 Computer Systems, COMP2901 Computer Systems (Adv).	Semester 2
INFO1903 Informatics (Advanced)	6	A HSC Mathematics P UAI (or ATAR equivalent) sufficient to enter BCST(Adv), BIT or BSc(Adv), or portfolio of work suitable for entry <i>Note: Department permission required for enrolment</i>	Semester 1
Second year core units of study for IS stream			
INFO2110 Systems Analysis and Modelling	6	A Experience with a data model as in INFO1003 or INFO1103 or INFS1000 N INFO (2810 or 2000 or 2900)	Semester 2
INFO2315 Introduction to IT Security	6	A Computer literacy N NETS (3305 or 3605 or 3016 or 3916) or ELEC (5610 or 5616)	Semester 2
ISYS2140 Information Systems	6	A INFO1003 or INFS1000 N ISYS (2006 or 2007)	Semester 1
INFO2120 Database Systems 1	6	A Some exposure to programming and some familiarity with data model concepts such as taught in INFO1103 or INFO1003 or INFS1000 or INFO1903 N INFO (2820 or 2005 or 2905)	Semester 1
Note: INFO2820 (advanced version) can be taken as an alternate core unit to INFO2120.			
<p>Maths/Statistics requirement: A total of 18 credit points (with at least 6 credit points of 2000-level or above) of MATH and/or STAT units of are required for completion of this degree All 1000-level and 2000-level units offered in the Science subject areas of Mathematics and Statistics can be taken to meet this requirement, however the School recommends students choose from the following units; MATH1001, MATH1002, MATH1003, MATH1004, MATH1005, MATH2069, MATH2063 and STAT2012. MATH and STAT units that are not taken as core units can be taken as other units.</p> <p>A full list of MATH and STAT units are available from Science Faculty handbook.</p>			
Second year recommended elective units of study for IS stream			
COMP2007 Algorithms and Complexity	6	A INFO1105, MATH1004 or MATH1904 N COMP (2907 or 3309 or 3609 or 3111 or 3811)	Semester 2
COMP2907 Algorithms and Complexity (Advanced)	6	A INFO1905, MATH1904 P Distinction level result in INFO (1105 or 1905) or SOFT (1002 or 1902) N COMP (2007 or 3309 or 3609 or 3111 or 3811)	Semester 2
COMP2129 Operating Systems and Machine Principles	6	A Programming, as from INFO1103 N SOFT (2130 or 2830 or 2004 or 2904) or COMP (2004 or 2904)	Semester 1
All 2000-level ELEC units of study are recommended electives.			
Third year core units of study for IS stream			
Students are required to complete at least 36 credit points of 3000-level from the core, selected core and recommended electives units of study listed here for the IS stream.			
INFO3402 Management of IT Projects and Systems	6	A INFO (2000 or 2110 or 2810 or 2900) N ISYS (3000 or 3012) or ELEC3606	Semester 1
INFO3600 Major Development Project (Advanced)	12	P INFO3402 N COMP3615 or ISYS3400 or SOFT (3300 or 3600 or 3200 or 3700) <i>Only available to students in BIT, BCST(Adv) or BSc(Adv)</i>	Semester 2
ISYS3401 Analytical Methods & Information Systems	6	A INFO2110, ISYS2140 N ISYS3015	Semester 1
Third year selected core units of study for IS stream			
Students must complete at least 6 credit points from the following list.			
ELEC3610 E-Business Analysis and Design	6	P INFO2120 N EBUS3003 E-Business System Design, EBUS3001 Introduction to e-Commerce Systems	Semester 1
INFO3315 Human-Computer Interaction	6	A INFO2110 N MULT (3307 or 3607 or 3018 or 3918) or SOFT (3102 or 3802) or COMP (3102 or 3802)	Semester 2
INFO3404 Database Systems 2	6	A Introductory database study such as INFO2120 or INFO2820 or INFO2005 or INFO2905. Students are expected to be familiar with SQL and the relational data model, and to have some programming experience. N INFO (3504 or 3005 or 3905) or COMP (3005 or 3905)	Semester 2
INFO3504 Database Systems 2 (Adv)	6	P Distinction-level result in INFO (2120 or 2820) or COMP (2007 or 2907) N INFO (3404 or 3005 or 3905) or COMP (3005 or 3905)	Semester 2
CS & IS double stream: Students must complete 24 credit points from the combination of selected core units for the CS stream and the IS stream, including at least 6 cp from the list above.			
Third year recommended elective units of study for IS stream			
COMP3109 Programming Languages and Paradigms	6	A COMP2007	Semester 2

Unit of study	Credit points	A: Assumed knowledge P: Prerequisites C: Corequisites N: Prohibition	Session
COMP3308 Introduction to Artificial Intelligence	6	A COMP2007 N COMP (3608 or 3002 or 3902)	Semester 1
COMP3608 Intro. to Artificial Intelligence (Adv)	6	P Distinction-level results in some 2nd year COMP or MATH or SOFT units. N COMP (3308 or 3002 or 3902)	Semester 1
COMP3419 Graphics and Multimedia	6	A COMP2007, MATH1002 N MULT (3306 or 3606 or 3019 or 3919 or 3004 or 3904) or COMP(3004 or 3904)	Semester 1
COMP3456 Computational Methods for Life Sciences	6	P INFO1105 and (COMP2007 or INFO2120) and 6 credit points from BIOL or MBLG	Semester 2
COMP3520 Operating Systems Internals	6	A COMP2129, INFO1105 N NETS (3304 or 3604 or 3009 or 3909) or COMP (3009 or 3909)	Semester 1
ELEC3506 Data Communications and the Internet	6	N NETS2150 Fundamentals of Networking, NETS2009 Network Organisation, NETS2909 Network Organisation (Adv), NETS3007 Network Protocols, NETS3907 Network Protocols (Advanced), ELEC3504 Data Communications and the Internet, ELEC4501 Data Communication Networks.	Semester 2
ELEC3607 Embedded Computing	6	A ELEC1101 Foundations of Computer Systems, or ELEC1601 Professional Computer Engineering or ELEC2602 Digital System Design. P ELEC1601 and ELEC2602 N ELEC2601 Microcomputer Systems.	Semester 2
ELEC3609 Internet Software Platforms	6	P INFO1103, INFO2110, INFO2120 N EBUS4001 E-Business Engineering	Semester 2
INFO3220 Object Oriented Design	6	A INFO2110, INFO1105 N SOFT (3301 or 3601 or 3101 or 3801) or COMP (3008 or 3908)	Semester 1
INFO3315 Human-Computer Interaction	6	A INFO2110 N MULT (3307 or 3607 or 3018 or 3918) or SOFT (3102 or 3802) or COMP (3102 or 3802)	Semester 2
All 3000-level and above ELEC units of study are recommended electives.			
Fourth year selected core units of study for IS stream			
Students in the BIT Pass degree must complete at least 48 credit points from this list.			
COMP5045 Computational Geometry	6	A Data structures, analysis of algorithms N COMP4045	Semester 1
COMP5046 Statistical Natural Language Processing	6	A Concepts of Linguistics, elementary statistics, AI techniques. N COMP4046	Semester 1
COMP5047 Pervasive Computing	6	A Networking concepts, operating system concepts, programming expertise. N NETS4047	Semester 2
COMP5048 Information Visualisation	6	A Discrete mathematics, algorithms and complexity. N COMP4048	Semester 2
COMP5318 Knowledge Discovery and Data Mining	6	A COMP5138 and familiarity with basic statistics	Semester 1
COMP5338 Advanced Data Models	6	A COMP5138 or equivalent	Semester 2
COMP5348 Enterprise Scale Software Architecture	6	A INFO3220 or COMP5028 or equivalent.	Semester 1
COMP5416 Advanced Network Technologies	6	A ELEC3506 or equivalent	Semester 2
COMP5424 Information Technology in Biomedicine	6	A Basic programming skills	Semester 1
COMP5425 Multimedia Storage, Retrieval & Delivery	6	A Algorithms (equivalent to COMP5211).	Semester 1
COMP5426 Parallel and Distributed Computing	6	A Equivalent of COMP5116	Semester 1
ELEC4605 Computer Architecture	6	A Logic operations, theorems and Boolean algebra, data representation, number operations (binary, hex, integers and floating point), combinational logic analysis and synthesis, sequential logic, registers, counters, bus systems, state machines, simple CAD tools for logic design, basic computer organisation, the CPU, peripheral devices, software organisation, machine language, assembly language, operating systems, data communications and computer networks, microprocessors and their use, the architecture, programming and interfacing of microcomputers, peripheral devices and chips, data acquisition, device monitoring and control and other communications. P ELEC1601, ELEC 2602 and ELEC3607 N ELEC4601 Computer Design.	Semester 1
ELEC5508 Wireless Engineering	6	A Basic knowledge in probability and statistics, analog and digital communications, error probability calculation in communications channels, and telecommunications network. N ELEC5504 Cellular Radio Engineering, ELEC4504 Wireless Networks.	Semester 2
ELEC5509 Mobile Networks	6	A Basically, students need to know the concepts of data communications and mobile communications, which could be gained in one the following units of study: ELEC3505 Communications, ELEC3506 Data Communications and the Internet, or similar units. If you are not sure, please contact the instructor. N ELEC5501 Advanced Communication Networks.	Semester 1
ELEC5514 Networked Embedded Systems	6	A ELEC3607, ELEC3305, ELEC3506 and ELEC5508	Semester 2
ELEC5614 Real Time Computing	6	A SOFT2130 Software Construction (or SOFT2004 Software Development Methods 1) and ELEC3607 Embedded Computing (or ELEC2601 Microprocessor Systems). Ability to program in a high level language. N ELEC4602 Real Time Computing.	Semester 2

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ELEC5616 Computer and Network Security	6	A A programming language, basic maths. N ELEC5611 Computer and Network Security, NETS3016 Computer and Network Security, NETS3916 Computer and Network Security (Adv).	Semester 1
ELEC5618 Software Quality Engineering	6	N SOFT3302 Software Quality Assurance	Semester 1
ELEC5619 Object Oriented Application Frameworks	6	A Java programming, and some web development experience are essential. Databases strongly recommended	Semester 2
INFO5991 Services Science Management and Eng	6	A INFO5990	Semester 1 Semester 2
INFO5992 Understanding IT Innovations	6	A INFO5990 N PMGT5875	Semester 1 Semester 2
ISYS5050 Knowledge Management Systems	6	A Information systems concepts, database concepts N ISYS4050 <i>Note: Department permission required for enrolment</i>	Semester 1

Honours (CS and IS streams)

The BIT may be awarded as an Honours degree. Students may enrol in the Honours course after completion of 144 credit points, if they meet the specified entry conditions. Students enrolled in a BIT degree must apply for enrolment into the Honours program after completion of 144 credit points.

All students in BIT(Honours) must complete the following 24 credit points of core requirements plus 24 credit points from the fourth year selected core list of their respective stream. These units are only available to students enrolled in Honours degrees, those in Research Higher degrees, or those in the Research track in postgraduate coursework degrees. In addition to the core units students must also complete 24 credit points of elective units of study, please refer to the Fourth year selected core units listed in this table.

Honours core units of study

INFO5993 IT Research Methods	6	A Elementary statistics N INFO4990 <i>Note: Department permission required for enrolment</i>	Semester 1 Semester 2
INFO4991 IT Research Thesis A	6	P Enrolment in Honours (BCST or BIT) C INFO4990 and INFO4992	Semester 1 Semester 2
INFO4992 IT Research Thesis B	12	P Enrolment in Honours (BCST or BIT) C INFO4990 and INFO4991	Semester 1 Semester 2
INFO4999 Computer Science Honours Result		P Permission of the Head of Department <i>Note: Department permission required for enrolment</i>	Semester 1 Semester 2