Bachelor of Information Technology (BInfTech) 2007

General Plan for Majors

You have the option to specialise the degree by specifying a major, or to make your own combination of courses which fit the degree rules. In some cases it may be possible to do 2 majors, provided you can do at least #6 of *different* level 3 courses in each major. This is most likely to work if there is some overlap in level 1 and 2 requirements for the two majors. It is highly advisable to get a study plan approved by EPSA after consulting an academic advisor if you want 2 single majors.

Red (**bold** for those without colour printers) courses are compulsory for all variants. Blue courses are required to make up the requirements for a major or a degree without a major. You can use the general formula below if you don't want a major. For example, you may prefer to express your specialisation by doing a dual degree, in which case, you would follow the general rule for a BInfTech without a major. You can combine a single major with a dual degree in some cases. You may also want to consult some study plans for proposed new majors.

In addition to the red courses, each major has a list of courses everyone doing that major takes, a list to choose from, and an open selection of electives to complete the degree. All courses listed here count #2 except CSSE3004/5 which counts #4.

year	Compulsory Courses for all Majors total #20				
1	**MMDS1400** Introduction to Web Design	**CSSE1001** Introduction to Software Engineering I	**INFS1200** Introduction To Information Systems	**MATH1061** Discrete Mathematics	**CSSE1000** Introduction to Computer Systems
2	**CSSE2002** Programming in the Large	**COMP2506** Human-Computer Interaction	with no major you must do at least 2 of COMP2303, INFS2200, CSSE2003		
3	**CSSE3004/5** Advanced Information Technology Project (#4 = 2 normal courses)				**COMP3506** Algorithms & Data Structures

If you do not want a major, note the comments in the first column below. If you want two single majors, this is allowed provided the level 3 requirements do not overlap.

	single major defines #12	**Software Design**	**Software Information Systems**	**Computer Systems and Networks**	**Human-Computer Interaction**
general compulsory courses ***non-major degree must contain 2 of*** COMP2303 CSSE2003 INFS2200		COMP2303 NW & OS Principles CSSE2003 SE Studio	INFS2200 RDBS **plus 1 of** COMP2303 NW & OS Principles CSSE2003 SE Studio	COMP2303 NW & OS Principles CSSE2003 SE Studio	**2 of** COMP2303 NW & OS Principles CSSE2003 SE Studio INFS2200 RDBS
specific compulsory for major					IENV1301 Visual Thinking[3] COMP3503 Interaction Design[3]
electives for major ***if no major, take at least 3 level 3 blue courses plus 1 more blue course***		**3 of** COMP3402 Concurrent & Real-Time Systems COMP3702 Artificial Intelligence CSSE3002 The Software Process CSSE3003 Software Specification **plus 1 more** blue course	**3 of** INFS3101 Ontology & the Semantic Web INFS3200 Advanced Database Systems INFS3202 Web Information Systems INFS3204 Service-Orientated Architectures INFS3222 Systems Analysis & Design[2] **plus 1 more** blue course	**3 of** COMP3301 Operating Systems Architecture COMS3000 Information Security COMS3200 Computer Networks I COMP3402 Concurrent & Real-Time Systems CSSE3001 Computer Architecture **plus 1 more** blue course	**2 of** COMP3505 Social and Mobile Computing IENV3000 Studio II - Physical Computing[3] IENV3500 Studio III - Information Environments[3] MMDS3300 Games Design[3]
remaining electives total #16 to bring degree up to #48		**8 more** courses (blue courses or other undergraduate courses approved by EPSA)			
a few more blue courses		CSSE2000 Introduction to Digital Systems (highly recommended to do before CSSE3001) MATH1050 Mathematical Foundations MATH3302 Coding & Cryptography IENV2200 Foundations of Design[3] MMDS2200 Graphic Design[3] *"more blue courses" means you can choose* ***any*** *blue courses not otherwise taken*			*see the official* ***Program List*** *for the full list of blue (officially called "Part A Elective" in 2006; in 2007, Parts B and C of the program list for the degree without a major) courses*

How to build your own BInfTech degree

i. *Compulsories*: all the **red** (**bold**) courses and
   - two of CSSE2003, INFS2200 or COMP2303 (depending which level 3 courses you want to take)

ii. *Program electives*: 6 (or 5 if taking all three of CSSE2003, INFS2200 and COMP2303) more blue courses; at least 3 of these must be level 3

iii. *Free electives*: 8 more courses – more blue courses, or other undergraduate courses approved by the Faculty of EPSA.

If you choose a major, it fits the same general rules, but requires that you select from the above tables. You can do 2 majors provided that the total for the degree is at most #48, and the two majors differ by at least #6 (3 standard-sized courses) in the level 3 courses you take towards each major.

If you are unsure whether you want a major, or which you want, start with the compulsory courses, and do all three of COMP2303, INFS2200 and CSSE2003.Make sure you do at least #12 (12 units) of late-year courses (courses with a 3 in the first digit of the code). All courses listed on this page count #2 except CSSE3004/5, which counts #4, so this means you need to complete at least 4 level-3 blue courses.

A double major may not be done with a dual degree. Note that the double majors specify 5 courses (#10) over the #32 needed for the BInfTech requirements, i.e., they use up 5 of the maximum of 8 free electives. Courses outside the main BInfTech list may be included in these extra #10 courses because they count in any case as free electives.

double major defines #20	**Enterprise Information Systems**	**Geographical Information Systems**	**Health Informatics**	**Games Modelling**	**Multimedia**	**Economic Modelling**	**Bioinformatics**	**Scientific Computing**
general compulsory courses	same as *Software Information Systems* single major	same as *Software Information Systems* single major	same as *Software Information Systems* single major	**2 of** COMP2303 NW & OS Principles CSSE2003 SE Studio INFS2200 RDBS	**2 of** COMP2303 NW & OS Principles CSSE2003 SE Studio INFS2200 RDBS	**2 of** INFS2200 RDBS COMP2303 NW & OS Principles CSSE2003 SE Studio	**2 of** COMP2303 NW & OS Principles CSSE2003 SE Studio INFS2200 RDBS	**2 of** COMP2303 NW & OS Principles CSSE2003 SE Studio INFS2200 RDBS
specific compulsory for major *see note on green courses below*	same as *Software Information Systems* single major	same as *Software Information Systems* single major	same as *Software Information Systems* single major	MATH1051 Calculus & Linear Algebra		MATH1051 Calculus & Linear Algebra STAT2004 Statistical Modelling & Analysis ECON1010 Introductory Microeconomics	MATH1051 Calculus & Linear Algebra	MATH1051 Calculus & Linear Algebra
BInfTech electives for major	same as *Software Information Systems* single major	same as *Software Information Systems* single major	same as *Software Information Systems* single major	**3 level 3** blue courses	**3 level 3** blue courses must be included in the *major double electives* below	**3 level 3** blue courses	**3 level 3** blue courses	**3 level 3** blue courses
double major electives *green (italics) courses are not on the main BInfTech program list and do* not *count towards the #32 requirement for the degree; if you drop a double major they would count as free electives*	**5 of** *ACCT1101 Accounting for Decision Making* *ACCT2102 Fundamentals of Cost Accounting* *ACCT3201 Business Information Systems* *ECON3420 Communications Technology & Information Economics* *INFS2233 Foundations of Electronic Commerce* *INFS2244 Electronic Commerce Systems Development* *INFS3222 Systems Analysis & Design* *LAWS1100 Business Law* *MGTS1301 Introduction to Management* *MGTS2202 Data & Information Management* *MGTS3207 Managing the Virtual Organisation* *MGTS3208 Managing Information Systems & Services* *TIMS3309 Technology & Innovation Management*	**5 of** *GEOS1100 Environment & Society* *GEOM1000 Geographical Information & Analysis* *GEOM2000 Introduction to Remote Sensing of Environment* *GEOM2001 Geographical Information Systems* *GEOM2002 Geographical Information Systems for Management and Planning* *GEOM3001 Advanced Remote Sensing of Environment* *GEOM3002 Advanced Geographical Information Systems*	**5 of** *ECON2460 Health Economics* *HLTH3000 Legal & Ethical Principles in Health*[3] *HMST3617 Ergonomics in Occupational Health & Safety*[3] *PUBH1102 Introduction to Population Health*[3] *PUBH1103 Health Systems*[3] *PUBH2007 Health Research Methods* *[PUBH3002 Evaluation of Health Services: Field Placement*[3] *[or* *[PUBH3003 Evaluation of Health Programs: Field Placement*[3]	**5 of** COMP2304 Programming for Engineering Systems COMP2702 Artificial Minds - An Introduction to Cognitive Modelling COMP3201 Computer Graphics COMS3200 Computer Networks I IENV1301 Visual Thinking[3] MATH1052 Multivariate Calculus & ODEs MMDS2200 Graphic Design[3] MMDS2311 Advanced Computer Animation[3] MMDS3300 Games Design[3]	**9 of** IENV1000 Studio I - Introduction to Design[3] IENV1301 Visual Thinking[3] MMDS1301 Multimedia Authoring[3] MMDS1311 3-D Modelling MMDS2200 Graphic Design[3] MMDS2201 Digital Video Production[3] MMDS2311 Advanced Computer Animation[3] COMP3503 Interaction Design[3] COMP3505 Social and Mobile Computing[3] MMDS3300 Games Design[3] IENV3000 Studio II - Physical Computing[3] IENV3500 Studio III - Information Environments[3]	**3 of** *ECON2400 Business Economics* *ECON2300 Introductory Econometrics* *ECON2320 Business & Economic Decision Techniques* *ECON3220 Benefit-Cost Analysis for Business* *ECON3300 Applied Econometrics* *ECON3420 Communications Technology & Information Economics*	**5 of** *BIOL1011 Genetics & Evolution* *BIOL1014 Molecular & Microbial Biology* *CHEM1020 General Chemistry* *BIOL2009 Genetics I: Molecular Genetics* *BIOL3004 Genomics & Bioinformatics* *STAT2004 Statistical Modelling & Analysis* *MATH2210 Introduction to Computational Biology* *MATH2302 Discrete Mathematics II: Theory & Applications* *MATH3104 Mathematical Biology*	**5 of** COMP2304 Programming for Engineering Systems COSC1000 Introduction to Computational Science MATH1052 Multivariate Calculus & ODEs MATH2200 Scientific Computing and Numerical Analysis MATH3201 Advanced Scientific Computing MATH3202 Operations Research & Mathematical Planning MATH3203 Visualisation & Modelling in Scientific Computing
remaining electives	**3 more** courses (blue courses or other undergraduate courses approved by EPSA)							science courses useful for examples (e.g., physics)

How a Dual Degree Works

i. The *free electives* (including the *green*, *italics* courses listed here) from each degree in effect are replaced by **required** courses for the other degree.
ii. You have to be accepted into both degrees (usually you start with the degree which is more competitive to enter)
   - if you are already here and have only been accepted for one degree, you can apply through mySI-net to add the second degree
   - if you do not initially make the requirements for the second degree, take required courses for that degree as free electives; you can apply later if you make grade point average requirements (usually after your first year)
   - if there is some overlap with a double major (e.g., Enterprise Information Systems and a business or commerce degree) start with the study plan for that double major; you will have to drop the double major if you switch to a dual degree.
iii. For most 3-year programs, overlapping the free electives with required courses from another degree usually results in being able to do both degrees in a total of 4 years; some combinations take longer.
iv. For more detail, see myAdvisor.

Changes in 2006 and 2007

In 2006, the old Part A and Part B lists were been combined into one Part A list, divided into compulsory and elective sections, conveniently coded here as red and blue. In 2007, the official program list was "simplified" for us by the university administration. See the official rules at www.uq.edu.au/study to judge for yourself.

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[1] Not currently offered. [2] Offered by the Business School. [3] Courses only currently available at Ipswich.