

## Bachelor of Information Technology (Faculty of Business) (BITE) - BIT

QTAC code (Australian and New Zealand applicants): Distance education: 903755

**This program is offered only to continuing students. No new admissions will be accepted. Students who are interested in this study area should consider the new Bachelor of Information Technology (BITC) which will be offered from Semester 1, 2009.**

	On-campus*	Distance education
<b>Campus:</b>	Toowoomba	-
<b>Fees:</b>	Commonwealth supported place International full fee paying place	Commonwealth supported place International full fee paying place
<b>Standard duration:</b>	3 years full-time, 6 years part-time or external	

### Footnotes

\* Only a selected number of courses are offered at the Fraser Coast campus.

## Contact us

<b>Current students</b>
<a href="#">Ask a question</a> Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email <a href="mailto:usqassist@usq.edu.au">usqassist@usq.edu.au</a>

## Information technology management major

Information Technology Management students develop skills in electronic commerce, systems analysis, database design, information security, network management, service management and enterprise resource systems. Students can study the Information Technology Management major in the Bachelor of Information Technology or the [Bachelor of Business](#). The Information Technology Management major is a general computing program designed to both develop good IT managers and as a complement to other business majors.

## Career opportunities

Business Applications Designer, Computer Trainer/Support, Database Designer, Help Desk Support, IT Manager, IT Sales and Marketing Specialist.

## Net technologies major

The program curriculum includes study in systems analysis and design, databases, Java programming, Net programming, enterprise architecture and networks. With the emphasis on practical development of systems and applications pertaining to business contexts, students will be well prepared to begin working in a network management environment.

## Career opportunities

Business Information Systems development with an emphasis on Electronic Business Technologies such as business applications designer, enterprise architect, information systems developer, database administrator, database designer.

## Program aims

The Bachelor of Information Technology is a vocationally oriented program emphasising the resolution of technological problems leading to the effective management and analysis of information in both private and

public sectors. Graduates should be familiar with relevant major academic disciplines and possess knowledge and skills in problem resolution and communication, as well as specific attributes enabling them to work effectively in their chosen specialisation(s).

Achievement of the objectives of the student's area of specialisation will result in a graduate of high academic standard who is capable of competing for employment in a chosen professional area and pursuing career development in that or other related areas.

## Program objectives

The objectives of the Bachelor of Information Technology are to enable graduates to:

- demonstrate sound presentation and communication skills which are required in the computing industry
- acquire specific knowledge and skills relevant to their disciplines and careers
- develop appropriate intellectual, professional and personal attributes
- become good problem-solvers and innovative thinkers, who are able to learn new skills independently and efficiently and consequently to succeed in a competitive professional environment
- demonstrate a basic understanding of the principles of information technology
- identify information needs appropriate to their area of specialisation, and apply the techniques required to gather and interpret such information
- demonstrate skills in the analysis and determination of technological issues at management level
- identify, analyse and solve problems in one or more areas of technology by selecting and using either quantitative or qualitative techniques appropriate to the resolution of technological problems
- satisfy academic admission requirements for membership of relevant professional bodies and the need for a commitment to that profession
- understand the ethics of their profession
- be capable of working with people from other disciplines towards the solution of common problems.

## Admission requirements

Candidates for admission into this program must satisfy the normal USQ entry requirements for undergraduate programs. Please refer to [Academic Regulation 5.4.2](#) of the University Calendar, Section 1 (for Australian students) and Section 3 (for international students).

International applicants must have met the [University's English language requirements](#) or have completed the [University's ELICOS/UNIPREP program](#).

## Program fees

### Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of your higher education and you as a student pay a [student contribution amount](#), which varies depending on the courses undertaken. You are able to calculate the fees for a particular course via the [Course Fee Finder](#).

Commonwealth Supported students may be eligible to defer their fees through a Government loan called [HECS-HELP](#).

### International full fee paying place

International students pay [full fees](#). Full fees vary depending on the courses that are taken and whether they are studied on-campus, via distance education/online. You are able to calculate the fees for a particular course via the [Course Fee Finder](#).

## Program structure

The Bachelor of Information Technology is comprised of 24 single-unit courses as follows:

Area of study	Number of units
Core courses <ul style="list-style-type: none"> <li>• all from Table A (two courses)</li> <li>• one course from Table B</li> <li>• one course from Table C</li> <li>• zero, one or two courses from Table D</li> <li>• four other core courses from Tables B, C or D (please note: students cannot complete more than two courses in total from Table D).</li> </ul>	8 units
Bachelor of Information Technology majors (select one): <ul style="list-style-type: none"> <li>• Information technology management</li> <li>• Net technologies</li> </ul>	8 units
Plus one of the following: <ul style="list-style-type: none"> <li>• Second major (8 units) <b>or</b></li> <li>• 2 x 4-unit Minors <b>or</b></li> <li>• 1 x 4-unit Minor and 4 elective courses</li> </ul>	8 units
<b>Total</b>	<b>24 units</b>

## Required time limits

Students have a maximum of 9 years to complete this program.

## Core courses

### Compulsory core courses:

<b>Table A</b>			
Course	Semester/mode of offer Toowoomba campus	Semester/mode of offer Fraser Coast campus	Semester/mode of offer Springfield campus
<a href="#">CIS1000 Information System Concepts</a>	S1 (ONC, EXT), S2 (ONC, EXT), S3 (EXT)	S1 (ONC)	S1 (ONC), S3 (ONC)
<a href="#">STA2300 Data Analysis</a>	S1 (ONC, EXT), S2 (ONC, EXT), S3 (EXT)	S2 (ONC)	S2 (ONC), S3 (ONC)

<b>Table B</b>			
Course	Semester/mode of offer Toowoomba campus	Semester/mode of offer Fraser Coast campus	Semester/mode of offer Springfield campus
<a href="#">ACC1101 Accounting for Decision-Making</a>	S1 (ONC, EXT), S2 (ONC, EXT), S3 (EXT)	S1 (ONC)	S1 (ONC)
<a href="#">ECO1000 Economics</a>	S1 (ONC, EXT), S2 (EXT), S3 (EXT)	S1 (ONC)	S2 (ONC), S3 (ONC)
<a href="#">FIN1101 Introduction to Financial Management</a>	S1 (ONC, EXT), S3 (EXT)	S1 (ONC)	S1 (ONC), S3 (ONC)

<b>Table C</b>			
Course	Semester/mode of offer Toowoomba campus	Semester/mode of offer Fraser Coast campus	Semester/mode of offer Springfield campus
<a href="#">LAW1101 Introduction to Law</a>	S1 (ONC, EXT), S2 (ONC, EXT), S3 (EXT)	S2 (ONC)	S2 (ONC)

<a href="#">MGT1000 Organisational Behaviour</a>	S1 (ONC, EXT), S2 (EXT), S3 (EXT)	S2 (ONC)	S1 (ONC)
<a href="#">MKT1001 Introduction to Marketing</a>	S1 (ONC, EXT), S2 (EXT), S3 (EXT)	S1 (ONC)	S1 (ONC), S2 (ONC)
<a href="#">POL1000 Government, Business and Society</a>	S1 (ONC, EXT), S2 (EXT), S3 (EXT)	S2 (ONC)	S1 (ONC)

<b>Table D</b>			
<b>Course</b>	<b>Semester/mode of offer Toowoomba campus</b>	<b>Semester/mode of offer Fraser Coast campus</b>	<b>Semester/mode of offer Springfield campus</b>
<a href="#">MAT1101 Discrete Mathematics for Computing</a>	For current year offerings, please refer to <a href="#">course specification website</a>		
<a href="#">MAT1100 Foundation Mathematics*</a>			
<a href="#">MAT1102 Algebra and Calculus I*</a>			

#### Footnotes

\* students may complete either, but not both of these courses

## Major studies

All students in the Bachelor of Information Technology must complete at least one major study. A major study is a set of courses that make up a coherent, in-depth study of a specific discipline.

## Double major studies

All Faculty of Business majors are eight units. Students may choose to complete a second major from the undergraduate degree programs in the Faculty of Business or from the undergraduate degree programs in another faculty at the University of Southern Queensland. A program in which there is a first and second major is known as a 'double major'. Where a second major from another faculty contains less than eight units, students must complete extra elective units, chosen from undergraduate courses offered at the University of Southern Queensland to ensure that their program contains 24 units in total. The sets of courses that make up each major in the Bachelor of Information Technology are summarised in the following tables:

## Information technology management major

Students enrolled in the Information Technology Management major must complete a second major from [Bachelor of Business](#) or [Bachelor of Commerce](#) unless specific permission is obtained from the Director of Undergraduate Studies. Note that the second major is not required if the student has been granted exemptions in any of the minor/elective courses, but a minor study and electives are then required. Refer to the entries for the [Bachelor of Business](#) and [Bachelor of Commerce](#).

<b>Course</b>	<b>Semester/Mode of Offer Toowoomba Campus</b>	<b>Semester/Mode of Offer Fraser Coast Campus</b>	<b>Semester/Mode of Offer Springfield Campus</b>
<a href="#">CIS1101 Introduction to Electronic Commerce</a>	S2 (ONC, EXT), S3 (EXT)		
<a href="#">CIS2000 Systems Analysis and Design</a>	S1 (ONC, EXT), S3 (EXT)		
<a href="#">CIS2002 Database Design</a>	S1 (ONC, EXT), S3 (EXT)		
<a href="#">CIS2005 Principles of Information Security</a>	S2 (ONC, EXT)		

<a href="#">CIS3002 Business Analysis</a>	S1 (ONC, EXT)		
<a href="#">CIS3003 Networks and Distributed Systems</a>	S1 (ONC, EXT)		
<a href="#">CIS3008 Information Technology Service Management</a>	S2 (ONC, EXT)		
<a href="#">CIS3009 Enterprise Resource Systems</a>	S2 (ONC, EXT), S3 (EXT)		

## Net technologies major

Students enrolled in the Net Technologies Major are recommended to complete a second major from the Faculty of Business. Please refer to the entry for the [Bachelor of Business](#) for a list of major studies.

Course	Semester/Mode of Offer Toowoomba Campus	Semester/Mode of Offer Fraser Coast Campus	Semester/Mode of Offer Springfield Campus
<a href="#">CIS1101 Introduction to Electronic Commerce</a>	S2 (ONC, EXT), S3 (EXT)		
<a href="#">CIS2000 Systems Analysis and Design</a>	S1 (ONC, EXT), S3 (EXT)		
<a href="#">CIS2002 Database Design</a>	S1 (ONC, EXT), S3 (EXT)		
<a href="#">CIS2003 Component Based Software Development</a>	S2 (ONC, EXT)		
<a href="#">CIS3001 Object-Oriented Programming with Java</a>	S1 (ONC, EXT)		
<a href="#">CIS3003 Networks and Distributed Systems</a>	S1 (ONC, EXT)		
<a href="#">CIS3007 Enterprise Systems Development and Architecture</a>	S2 (ONC, EXT)		
<a href="#">CIS3010 Oracle Development</a>	S2 (ONC, EXT)		

## Minor studies

A minor study is a coherent group of four units of courses that provides students with an appropriate breadth of study in their program. All students, except those undertaking a second major, must complete a four-unit minor study. Students who wish to take a minor study not listed in the recommended minors must obtain permission from the Director of Undergraduate Studies. Before undertaking any course, the pre-requisite courses must be completed or exempted.

### Please note:

When students select a minor(s), courses will only count towards that minor(s) if they have not already counted towards another selected major or minor.

Not all minors are available on-campus at all campuses.

Refer to the Minor studies in the [Bachelor of Business](#) section for further details regarding minors.

Students may choose courses from those listed in the [Minor Studies](#) section of this Handbook. Enrolment requirements must be satisfied for any course selected.

## Elective courses

All students must select four units of elective courses from courses offered at undergraduate level by Faculty of Business undergraduate programs or, with the approval of the Director of Undergraduate Studies, from undergraduate programs offered by other faculties at the University of Southern Queensland. For the purposes of satisfying the electives requirement, students may choose courses from those listed in the [Minor Studies](#) section of this Handbook. Enrolment requirements must be satisfied for any course selected.

## IT requirements

For information technology requirements please refer to the [computer requirements section](#).

## Other program requirements

Students must maintain good standing in this program. Please refer to [Academic Regulation 5.9](#) of the University Calendar.

## Articulation

Students enrolled in the joint Diploma of Information Technology/Bachelor of Information Technology program must complete the Diploma at the Southern Queensland Institute of TAFE before continuing enrolment at USQ.

## Exemptions

Candidates for admission to the Bachelor of Information Technology program may be eligible for up to 16 units of exemption on the basis of successful completion of relevant, equivalent undergraduate study from a recognised university or institution offering equivalent study. Exemptions approved in this program will not automatically apply to other programs offered by USQ.

Claims for exemptions for previous study should be submitted prior to or at the time of enrolment. Each claim will be assessed on individual merit in line with the Faculty's Exemptions policies.

**Note:** Where exemptions are granted, maximum and minimum duration will be adjusted in the same proportion as exemptions, for example, where 8 exemptions are granted, maximum time will be 6 years and minimum time will be 4 terms.

## Recommended enrolment patterns

Given the program structure information, students should plan their enrolment making sure that they have fulfilled all core, major, minor and elective requirements. Enrolment requirements must be satisfied before enrolling in a course.

As a guide, full-time students should plan to undertake eight courses per year and external students, who are in employment, a maximum of six courses per year, with a minimum of four courses per year. This is exclusive of any semester 3 enrolments. Students wishing to enrol in more than four courses per semester or more than two courses in semester 3 must obtain permission from the Director of Undergraduate Studies.

Courses are normally offered on-campus and externally in the same semester. If a course is offered twice in one year, the second offering will normally be on an external basis only. Students undertaking the Bachelor of Information Technology may not enrol in any postgraduate courses. On-campus students are not permitted to enrol in external courses unless the on-campus version is not available.

## Information technology management recommended enrolment pattern

Major study: Information Technology Management							
Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
<a href="#">CIS1000 Information System Concepts</a>	1	1	1	1			OE
Core course	1	1	1	1			
Core course	1	1	2	1			
Core course	1	1	2	1			
<a href="#">STA2300 Data Analysis</a>	1	2	1	2			OE
Core course	1	2	1	2			
<a href="#">CIS1101 Introduction to Electronic Commerce</a>	1	2	2	2			OE
Course of second major	1	2	2	2			
<a href="#">CIS2000 Systems Analysis and Design</a>	2	1	3	1			OE
<a href="#">CIS2002 Database Design</a>	2	1	3	1			OE
Core course	2	1	4	1			
Course of second major	2	1	4	1			
<a href="#">CIS2005 Principles of Information Security</a>	2	2	3	2			OE
Core course	2	2	3	2			
Course of second major	2	2	4	2			
<a href="#">CIS3009 Enterprise Resource Systems</a>	2	2	4	2			OE
Course of second major	3	1	5	1			
Course of second major	3	1	5	1			
<a href="#">CIS3002 Business Analysis</a>	3	1	6	1			OE
<a href="#">CIS3003 Networks and Distributed Systems</a>	3	1	6	1			OE
Course of second major	3	2	5	2			
<a href="#">CIS3008 Information Technology Service Management</a>	3	2	5	2			OE
Course of second major	3	2	6	2			
Course of second major	3	2	6	2			

### Footnotes

**OE** Before enrolling in this course students must check that they have satisfied the 'Recommended prior study' or 'Other enrolment' requirements set out in the Other requisites section of the course specification.

## Net technologies recommended enrolment pattern

Major study: Net Technologies							
Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
<a href="#">CIS1000 Information System Concepts</a>	1	1	1	1			OE
Core course	1	1	1	1			
Core course	1	1	2	1			
Core course	1	1	2	1			
<a href="#">STA2300 Data Analysis</a>	1	2	1	2			OE
<a href="#">CIS1101 Introduction to Electronic Commerce</a>	1	2	1	2			OE
Core course	1	2	2	2			
Course of second major	1	2	2	2			
<a href="#">CIS2002 Database Design</a>	2	1	3	1			OE
<a href="#">CIS2000 Systems Analysis and Design</a>	2	1	3	1			OE
Course of second major	2	1	4	1			
Course of second major	2	1	4	1			
<a href="#">CIS3010 Oracle Development</a>	2	2	3	2			OE

Course	Major study: Net Technologies						Enrolment requirements
	Year of program and semester in which course is normally studied						
	On-campus (ONC)		External (EXT)		Online (WEB)		
Year	Sem	Year	Sem	Year	Sem		
Core course	2	2	3	2			
Course of second major	2	2	4	2			
<a href="#">CIS2003 Component Based Software Development</a>	2	2	4	2			OE
Core course	3	1	5	1			
<a href="#">CIS3001 Object-Oriented Programming with Java</a>	3	1	5	1			OE
Course of second major	3	1	6	1			
<a href="#">CIS3003 Networks and Distributed Systems</a>	3	1	6	1			OE
<a href="#">CIS3007 Enterprise Systems Development and Architecture</a>	3	2	5	2			OE
Course of second major	3	2	5	2			
Course of second major	3	2	6	2			
Course of second major	3	2	6	2			

**Footnotes**

**OE** Before enrolling in this course students must check that they have satisfied the 'Recommended prior study' or 'Other enrolment' requirements set out in the Other requisites section of the course specification.