Bachelor of Information Technology (BITC) - BIT

QTAC code (Australian and New Zealand applicants): Toowoomba campus: 903741; Distance education: 903745

CRICOS code (International applicants): 007490J

	On-campus	Distance education
Semester intake:	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July) Semester 3 (November)
Campus:	Toowoomba	-
Fees:	Commonwealth supported place Domestic full fee paying place International full fee paying place	Commonwealth supported place Domestic full fee paying place International full fee paying place
Standard duration:	3 years full-time, up to 6 years part-time	

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infrastructure is achieved via detailed study of the .NET framework and Java development environments and network management in tandem with a one-year database sequence. The database sequence provides interested students with the opportunity to pursue two Oracle certifications.

Career opportunities

Business Information Systems Developer, Business Applications Designer, Enterprise Architect, Information Systems Developer, Database Administrator, Database Designer.

Information Technology Management major

The Information T

- demonstrate a sound understanding of the principles of information technology
- demonstrate sound presentation and communication skills within the computing industry
- develop appropriate intellectual, ethical, 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
- be capable of working with people from other disciplines towards the solution of common problems
- identify information needs appropriate to their area of specialisation and apply the techniques required to gather and interpret such information
- satisfy academic admission requirements for membership of relevant professional bodies
- proceed to higher studies.

Major objectives

Applied Computer Science major

On completion of the Applied Computer Science major, graduates should be able to:

- display detailed knowledge of and be competent in the fundamentals of structured programming, and the application of basic algorithms and data structures
- understand the difference between the major programming language paradigms, and be able to select the paradigm best suited to solve a problem
- demonstrate sound knowledge of operating systems principles and display familiarity with various modern operating systems
- demonstrate a sound knowledge of web technology and techniques both at the client and the server side
- be able to design and implement web-based user interfaces in accordance to technical, stylistic, and open access standards
- understand and apply methods for planning and managing large software projects, including design, development and maintenance aspects
- display a detailed knowledge of the fundamental principles of database systems and be able to apply these using database software.

Information Systems Development major

On completion of the Information Systems Development major, graduates should be able to:

- demonstrate an understanding of the electronic business framework for areas such as mark

Networking and Security major

On completion of the Networking and Security major, graduates should:

- be able to design, install, configure, troubleshoot, and maintain networks and their operating systems
- be able to install, configure and manage network, system, user, and security services
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Australian citizens, Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who will be resident outside Australia for the duration of their program pay full tuition fees and are not eligible for FEE-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 units as follows:

Area of study	Number of units
Core Courses • 5 compulsory courses common to all majors • 3 compulsory courses dependent on your major*# * Students taking the Information System Development major or Information Technology Management major should choose the core electives from a Defined List of courses. # Students taking the Applied Computer Science major or Networking and Security major must take the Nominated List of courses (MAT1101, CSC2406 and CSC3600) as the three core electives	8 units
Bachelor of Information Technology major (select one): • Applied Computer Science • Information Systems Development • Information Technology Management • Networking and Security	8 units
Plus one of the following: • Second major (8 units) **or** • 2 x 4-unit minors **or** • 1 x 4-unit minor and 4 elective units **or** • 8 elective units	8 units
Total	24 units

Footnotes
* Students taking the Information System Development major or Information Technology Management major should choose the core electives from a Defined List of courses.
# Students taking the Applied Computer Science major or Networking and Security major must take the Nominated List of courses (MAT1101, CSC2406 and CSC3600) as the three core electives

Required time limits

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

Core courses

Compulsory courses common to all majors
CIS1000 Information Systems Concepts
CIS3002 Business Analysis
CMS1000 Communication and Scholarship
CSC1401 Foundation Programming
CSC2407 Introduction to Software Engineering

Compulsory courses per major:

Applied Computer Science and Networking & Security
CSC2406 Web Technology
CSC3600 ICT Professional Project
MAT1101 Discrete Mathematics for Computing

CSC3400 Database Systems	S1 (ONC, EXT)
CSC3403 Comparati	S1 (ONC, EXT)

Networking and Security major

Course	Semester/Mode of Offer Toowoomba Campus
CSC2404 Operating Systems	S2 (ONC, EXT)
CSC2408 Software Development Tools	S1 (ONC, EXT), S2 (ONC, EXT)
CSC3400 Database Systems	S1 (ONC, EXT)
CSC3407 Network Fundamentals and Routing	S1 (ONC, EXT)
CSC3412 System and Security Administration	S1 (ONC, EXT)
CSC3413 Network Design and Analysis	S2 (ONC, EXT)
CSC3420 Mobile Internet Technology	S1 (ONC, EXT)
CSC3427 Switching, Wireless and WAN Technologies	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 4-unit minor study. Students who wish to take a minor study not listed in the recommended minors must obtain permission from the Program Coordinator. 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. 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

Students not completing a double major must select 4 units of elective courses from courses offered at undergraduate level from Faculty of Business and Law or Faculty of Sciences undergraduate programs or, with the approval of the Program Coordinator, from undergraduate programs offered by other faculties at the University of Southern Queensland. Prerequisite enrolment requirements must be satisfied for any course selected. For various reasons, the following course will not be approved as an elective: CSC1402 Foundation Computing.

IT requirements

For information technology requirements please refer to the minimum computing standards. Students completing either the Applied Computer Science major or the Networking and Security major will be required to install the Linux operating system as well as a Microsoft Windows operating system. A Linux installation DVD, together with instructions, is available from the USQ Bookshop.

Other program requirements

Students must maintain good standing in this program. Please refer to Section 2 of the Academic Standing, Progression and Exclusion Policy.

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, e.g. where 8 exemptions are granted, maximum time will be 6 years and minimum time will be 4 terms.

Recommended Enrolment Patterns

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

As a guide, full-time students should plan to undertake 8 courses per year and external students, who are in employment, a maximum of 6 courses per year, with a minimum of 4 courses per year. This is exclusive of an

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							ing Programs: GDTI or GCSC or GDGS or GCEN or GDET or METC or MCOT or M CTE or MCOP or MPIT or MSBN or MSMS
CSC3600 ICT Professional Project	3	2	6	1			Pre-requisite: Students must have satisfactorily completed at least 16 courses including seven BITC core courses other than this course
Elective/second major course	3	2	6	2			