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**	**Online**
Semester intake:	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July) Semester 3 (November)	
Campus:	Toowoomba		-
Fees:	Commonwealth supported place	Commonwealth supported place	

- 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.

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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 processing languages

- 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
- have acquired skills in development of new systems to operate networks
- be able to interface networks with wide area networks such as the Internet and newer network architectures
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	Number of units

CSC2406 Web Technology
CSC3600 ICT Professional Project
ECO1000 Economics
ELE1301 Computer Engineering
FIN1101 Introduction to Corporate Finance
LAW1101 Introduction to Law
MAT1100 Foundation Mathematics
MAT1101 Discrete Mathematics for Computing
MGT1000 Organisational Behaviour
MKT1001 Introduction to Marketing
POL1000 Government, Business and Society
STA2300 Data Analysis

*   **Please note:** Students undertaking a double major with either Applied Computer Science or Networking and Security as one of the majors **must** complete CSC2406 Web Technology, CSC3600 ICT Professional Project and MAT1101 Discrete Mathematics for Computing as their optional core 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

Students may choose to complete two majors from the Bachelor of Information Technology or they may choose to complete a second 8-unit major from the undergraduate degree programs in the area of Business, Law or Sciences. Alternately they may choose a major from the undergraduate degree programs in another area 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 program contains less than 8 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:

Applied Computer Science major

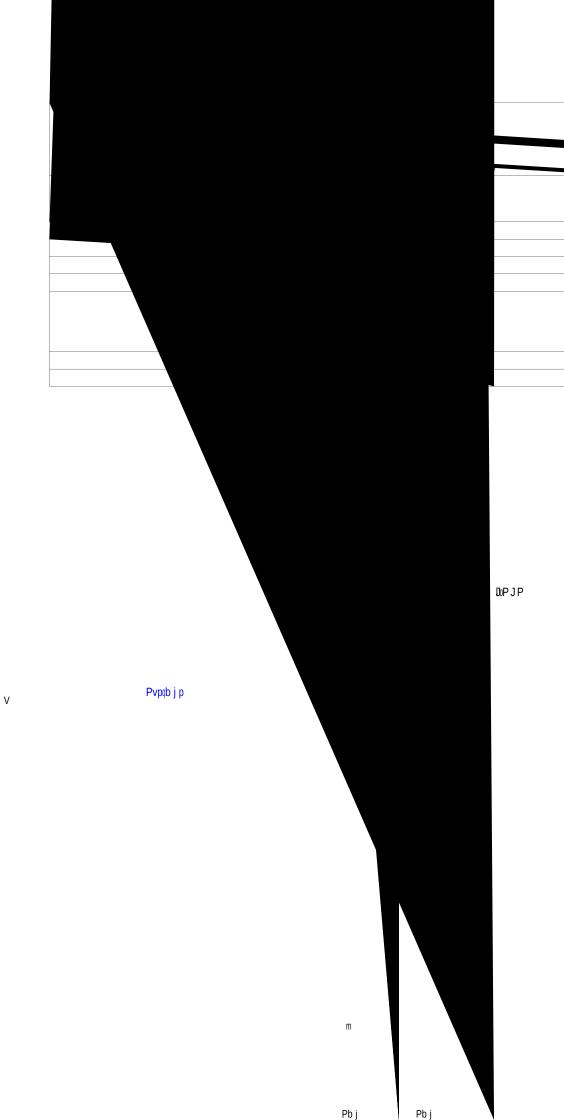| Course	Semester/Mode of Offer Toowoomba Campus
CSC2401 Algorithms and Data Structures	S2 (ONC, EXT)
CSC2402 Object-Oriented Programming in C++	S1 (ONC, EXT)
CSC2404 Operating Systems	S2 (ONC, EXT)
CSC2408 Software Development Tools	S1 (ONC, EXT), S2 (ONC, EXT)
CSC3400 Database Systems	S1 (ONC, EXT)
CSC3403 Comparative Programming Languages	S1 (ONC, EXT)
CSC3412 System and Security Administration	S1 (ONC, EXT)
CSC3419 XML and the Web	S2 (ONC, EXT)

Information Systems Development major

Course	Semester/Mode of Offer Toowoomba Campus
CIS1101 Business Online	S2 (ONC, EXT), S3 (EXT)

study. Students who wish to tak

any semester 3 enrolments. Students wishing to enrol in more than 4 courses per semester or more than 2 courses in semester 3 must obtain permission from the Faculty of Business, Education, Law and Arts.

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

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Recommended Enrolment Pattern - Information Technology Management

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.