

# Bachelor of Information Technology (BITC) - BIT

QTAC code (Australian and New Zealand applicants): Toowoomba campus: 903741; Online: 903745;  
Springfield campus: 923741

CRICOS code (International applicants): 007490J

	<b>On-campus</b>	<b>Online</b>
<b>Start:</b>	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July) Semester 3 (November)
<b>Campus:</b>	Springfield, Toowoomba	-
<b>Fees:</b>	Commonwealth supported place Domestic full fee paying place	Commonwealth supported place Domestic full fee paying place

- think critically, constructively and logically about project management principles and tools to plan project completions
- communicate clearly and coherently to present relevant knowledge and ideas to a range of audiences
- identify, collect, analyse and manage information for a broad range of information technology issues and challenges
- demonstrate an understanding of ethical standards and socially responsible information technology practices.

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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
- evaluate 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
- design and implement web-based user interfaces in accordance to technical, stylistic, and open access standards
- evaluate and apply methods for planning and managing large software projects, including design, development and maintenance aspects
- demonstrate detailed knowledge of the fundamental principles of database systems and be able to apply these using database software.

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On completion of the Data Analytics major, graduates should be able to:

- capture manage and analyse large volumes of data (big data) both structured and unstructured using appropriate techniques and technologies
- effectively communicate information and knowledge obtained from large volumes (big data) in appropriate formats for the intended audience
- analyse large v

- recognise the importance of IT service management and demonstrate understanding of the important best practice frameworks
- 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.

### **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
- install, configure and manage network, system, user, and security services
- demonstrate acquired skills in development of new systems to operate networks
- interface networks with wide area networks such as the Internet and newer network architectures
- demonstrate sound knowledge of the operating systems that are used to provide services on networks, including at least Linux and Windows
- demonstrate detailed knowledge of the fundamental principles of database systems and be able to apply these using database software.

### **Australian Qualifications Framework**

The Australian Qualifications Framework (AQF) is a single national, comprehensive system of qualifications offered by higher education institutions (including universities), vocational education and training institutions and secondary schools. Each AQF qualification has a set of descriptors which define the type and complexity of knowledge, skills and application of knowledge and skills that a graduate who has been awarded that qualification has attained, and the typical volume of learning associated with that qualification type.

This program is at AQF Qualification Level 07. Graduates at this level will have broad and coherent knowledge and skills for professional work and/or further learning.

The full set of levels criteria and qualification type descriptors can be found by visiting [www.aqf.edu.au](http://www.aqf.edu.au).

### **Program Information Set**

View USQ's admission criteria, student profiles and a summary of all offers made under [Course Admission Information Set](#) via the QTAC website.

### **Admission requirements**

To be eligible for admission, applicants must satisfy the following requirements:

- Have achieved a minimum Ov

If students do not meet the English language requirements they may apply to study a University-approved [English language program](#). On successful completion of the English language program, students may be admitted to an award program.

^ These are determined by the University for specific programs each Semester. The 2019 OP and tertiary entrance ranks are based on agreed QTAC schedules which assess formal study at Year 12 or [equivalent level](#), tertiary, preparatory, professional or vocational qualifications or work experience, as detailed in the QTAC Assessment of Qualifications Manual and QTAC Assessor Guidelines.

Special admissions may help you get into the program of your choice by increasing your Selection Rank. The additional points don't apply to all applicants or all programs. Please read the information about USQ's [Special Admissions](#) carefully to find out what you may be eligible for.

## **Program fees**

### **Commonwealth supported place**

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of a students' higher education and students pay a [student contrib](#)




<a href="#">CSC2402 Object-Oriented Programming in C++</a>	1	1	
<a href="#">CSC2404 Operating Systems</a>	2	2	2
<a href="#">CSC2408 Software Development Tools</a>	1, 2	1, 2	1, 2
<a href="#">CSC3400 Database Systems<sup>^</sup></a>	1	1	1
<a href="#">CSC3403 Comparative Programming Languages<sup>*</sup></a>	1	1	
<a href="#">CSC3412 System and Security Administration</a>	1	1	1
<a href="#">CSC3426 Web Technology 2</a>	2	2	

**Footnotes**

<sup>^</sup> In 2020 students should complete [CIS2002 Database Design and Implementation](#) instead of CSC3400 Database Systems.

<sup>\*</sup> In 2020 students should complete [CIS3001 Object-Oriented Programming with Java](#) instead of CIS3403 .

**Data Analytics major**

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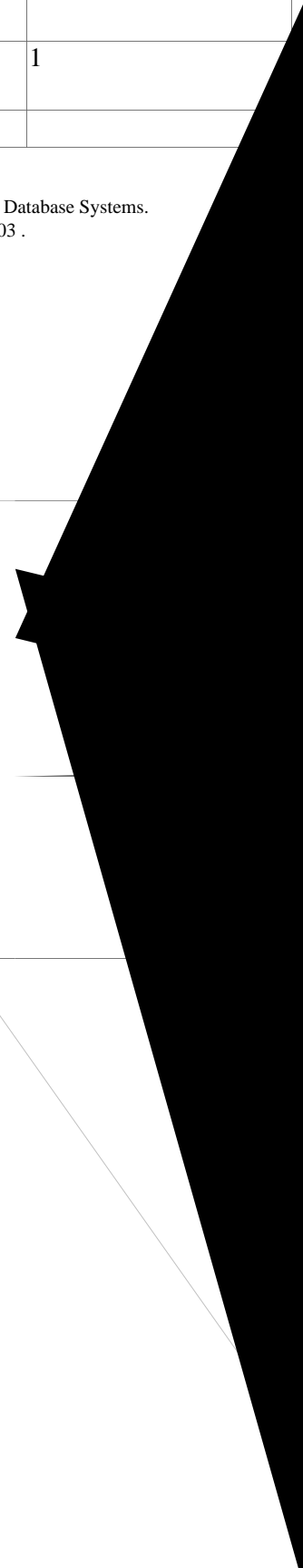
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## Minor Studies

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 Faculty of Business, Education, Law and Arts. 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.

## Electives/Approved courses

Students not completing a double major must select 4 units of elective courses from courses offered at undergraduate level in the area of Business, Law or Sciences or, with the approval of the Faculty of Business, Education, Law and Arts, from other undergraduate courses offered at the University of Southern Queensland. Pre-requisite enrolment requirements must be satisfied for any course selected.

CSC1402 will not be approved as an elective.

## 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 the [Academic Standing, Progression and Exclusion Procedure](#).

## Articulation

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

## Exit points

Students not wishing to complete the Bachelor of Information Technology may be permitted to exit with the Diploma of Information Technology (DITC) if they have completed 8 courses as follows:

- at least 2 core courses from the Bachelor of Information Technology
- 6 other courses from the Bachelor of Information Technology.

Please note that students who exit with the Diploma of Information Technology (DITC) may need to undertake further study to be eligible for membership of the [Australian Computer Society](#).

## Credit

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

**Note:** Where credit is granted, maximum and minimum duration will be adjusted in the same proportion as

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