

- satisfactorily complete 24 credit points listed in the standard progression to graduate from the program. At least four units will be at level 3;
- satisfactorily complete all courses within 9 years;
- maintain satisfactory academic achievement throughout the duration of the program, consistent with the [UniSQ Student Academic Progress Procedure](#);
- meet the [Inherent Requirements](#) for the Bachelor of Information Technology.

Program objectives

At the completion of this program, students should be able to:

- (1) incorporate concepts of professionalism, cultural awareness, and technical practice within the IT work environment;
- (2) effectively communicate (both written and verbally) and employ appropriate interpersonal skills;
- (3) understand and employ broad and coherent theoretical and technical knowledge with depth in one of the following discipline areas: software application development, artificial intelligence and data science, networking and cyber security;
- (4) analyse, problem solve, generate and recommend solutions to unpredictable and sometimes complex ICT problems either individually or in teams;
- (5) apply technical knowledge and skills to demonstrate autonomy, judgment and responsibility;
- (6) apply effective project management tools and techniques to technology initiatives.

Major objectives

Software Application Development major

On completion of this major, students 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 kno

- design, install, configure, troubleshoot, and maintain networks and their operating systems, including at least Linux and Windows;
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Program fees

CSC1030 Systems and Data Management Fundamentals	1,2	1,2	1,2
CMS1100 Communicating in the Sciences	1,2	1	
CSC1050 Network and Security Fundamentals	1,2	1,2	1,2
CSC1060 Data Analytics Fundamentals	1,2	1,2	1,2
CSC3600 ICT Professional Project	1,2	1,2	1,2
CSC2000 Planning a Career in the ICT Industry *	2	2	2

Footnotes

£ In Semester 3, 2023 this course will be delivered as a Transition (9 week) semester, commencing on 13 November 2023 and concluding on 12 January 2024

* First offer in 2024 academic year

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. Alternatively, they may choose a major² 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:

Software Application Development Major

	Semester of offer	Semester of offer Toowoomba campus	Semester of offer Springfield campus

CSC3480 Web Technology 2: Full Stack^	2	2	2
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Footnotes

CSC3360 Networking 3: Wireless Networking and Security [^]	1	1	1
CSC3370 Security 2: Advanced Security and Security Management [^]	2	2	2
CSC3413 Network Design and Analysis	2	2	2

Footnotes

* First offer in 2024 academic year

[^] First offer in 2025 academic year

Electives/Approved courses

Elective courses enable students to further increase their knowledge and widen their perspectives. Students can choose up to 8 electives that can be selected from any program at undergraduate Levels 1, 2 and 3 offered by UniSQ. Choice of an elective will depend on the availability of the course(s), timetabling constraints, any specified pre-requisite and quotas. Students may consult the Program Director for a recommendation.

IT requirements

For information technology requirements please refer to the [minimum computing standards](#). Students will be required to install the Linux operating system as well as a Microsoft Windows operating system. Students may use other platforms, however it is not mandatory, therein UniSQ might not provide the support.

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 UniSQ.

Exit points

Students who, for whatever reason, do not complete the program may exit at the following points:

Recommended Enrolment Pattern – Software Application Development Semester 1 intake

Recommended Enrolment Pr

Recommended Enrolment Pattern – Networking and Cyber Security Semester 1 intake
