

Bachelor of Information Technology (Honours) (Faculty of Sciences) (BINH) - BIT(Hons)

This program is offered only to continuing students. No new admissions will be accepted. Students who are interested in this study area should [contact us](#).

	On-campus	Distance education
Campus:	Toowoomba	-
Fees:	Commonwealth supported place International full fee paying place	Commonwealth supported place
Standard duration:	1 year full-time, 2 years part-time maximum	

Contact us

Current students

Contact the Administration Officer (Mathematics and Computing), telephone +61 7 4631 2384, email sciences.enrolment@usq.edu.au or submit a question via [USQAssist](#).

Program focus

The Bachelor of Information Technology (Honours) provides you with a high level of skill and proficiency in computing and research, and meets the requirements to undertake further Masters or Doctoral-level studies.

Career opportunities

Completion of the Bachelor of Information Technology (Honours) program will provide the graduate with a highly competitive and specialist qualification.

Program objectives

Upon successful completion of the program, graduates will be able to:

- work as a professional in the Information Technology industry
- demonstrate knowledge of key areas of computing at an advanced level
- demonstrate understanding of higher level concepts and systems in key areas of computing
- carry out the required analysis and synthesis involved in modelling computing systems and networks, information systems or other complex systems
- demonstrate sound practical skills to enable them to address problems which arise from computing systems and industry
- have the capability to proceed to research in applied and experimental computing
- demonstrate sound presentation and communication skills that are required in a university environment or in the computing industry
- proceed to PhD study subject to competitive evaluation of qualifications.

Admission requirements

To qualify for entry to the Bachelor of Information Technology (Honours), students will:

- have been awarded a degree in computer science or information technology from an Australian University or from a recognised overseas university
- have pre-requisite knowledge of computing equivalent to the Applied Computer Science, Games and Creative Technologies, Multimedia Technology, Networking, Software Engineering or Web Information Systems majors of the [Bachelor of Information Technology \(Faculty of Sciences\)](#) at the University of Southern Queensland

- have met minimum academic requirements in the relevant undergraduate program. These requirements normally include one or more of the following:
 - achieved a Grade Point Average equivalent to the level of Credit or better for the whole program
 - achieved a Grade Point Average equivalent to the level of Credit or better in the second or third years of the undergraduate degree
 - achieved a Grade Point Average equivalent to the level of Credit or better in the major study in the undergraduate degree.

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

Discretionary Admission

The Dean may, on the advice of the Head of Department, admit students who do not satisfy all the general requirements for entry but who, in the opinion of the Head of Department, have a reasonable chance of success.

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 program has two components, four units of coursework and four units of project work.

For the coursework component, students have a choice of four courses as indicated in the following table. The specific Honours courses offered may vary from year to year.

Each student is required to complete the two two-unit courses [MSC8001 Research Project Methodology](#) and [MSC8002 Research Project Dissertation](#) under the supervision of appropriate staff of the Department of Mathematics and Computing.

Complementary Studies

The two Computing Complementary Studies courses are designed to allow students to pursue studies in Computing not contained in the program. These studies could be staff-initiated and depend on staff research interests and/or areas of special expertise or may be initiated by students. If student-initiated, the student will be required to submit a proposal and a staff member would have to agree to supervise the student. In both instances the Postgraduate Coordinator would need to approve the study.

Topics available from time-to-time for Computing Complementary Studies include Logic Programming, Functional Programming, Formal Methods in Software Engineering, Human-Computer Interaction, Parallel and Distributed Languages and Programming, Object-Oriented Design Patterns, Distributed Object Programming, Graphics Tools Development, Spatial Data Structures and their Applications, Object-Oriented and Multimedia Databases, Database Systems and Data Mining.

All students must have their course enrolment approved by the Program Coordinator.

Required time limits

Students have a maximum of 2 years to complete this program.

IT requirements

All students are required to have access to a personal computer with a minimum configuration of:

Pentium, 64Mb RAM, 8Gb Hard Disk, CDROM, Sound Card, SVGA with 2Mb memory, three-button mouse, external modem, printer, dual boot operating system: Linux and Microsoft Windows.

Macintosh computers are not recommended due to the software used in the courses in the [Bachelor of Information Technology \(Faculty of Sciences\)](#).

Software is specified on a course-by-course basis and, in some instances, it is provided with the textbook required for the course.

Students studying [CSC2406 Web Publishing](#) and/or [CSC3407 Network Fundamentals and Routing](#) will require Internet access.

The University is installing a wireless network for students' computers. In order to take advantage of this facility and further enhance their on-campus learning environment, students should consider purchasing a notebook/laptop computer with wireless connectivity. A notebook/laptop may be required for some courses.

Recommended enrolment pattern

Entry is no longer available into the Bachelor of Information Technology (Honours) (BINH). Currently enrolled students will be able to complete their program, though some courses may no longer be available. Students who require further advice regarding their study options should contact the (Computing/Postgraduate) Coordinator within the Department of Mathematics and Computing.

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	
MSC8001 Research Project Methodology	1	1					Pre-requisite: Students must be enrolled in one of the following Programs: BINH or MCOP or MPIT or BSCH or MSMS.
MSC8002 Research Project Dissertation	1	2					Pre-requisite: MSC8001 and Students must be enrolled in one of the following Programs: BINH or MCOP or MPIT or BSCH or MSMS.
plus four courses from:							
CSC8415 Computer Network Programming	1	1	1	1			Pre-requisite: (CSC2404 and CSC3407) or Students must be enrolled in one of the following Programs: MCOP or MPIT or GCEN or GDET or METC
CSC8416 Advanced Programming in Java	1	3	1	3			Pre-requisite: Students must be enrolled in one of the following Programs: BINH or GCAC or GCPC or GDAC or GDPC or MCOP or MPIT or MPCP or GCEN or GDET or METC
CSC8480 Computing Complementary Studies A*	1	1	1	1			Pre-requisite: Students must be enrolled in one of the following Programs: BINH or GCAC or GCPC or GDAC or GDPC or MCOP or MPIT or MPCP
CSC8407 Wireless and Internet Technology	1	1		1			Pre-requisite: (CSC3407 and CSC3413) or Students must be enrolled in one of the following Programs: MCOP or MPIT
CSC8408 e-Commerce Technology	1	2		1			Pre-requisite: CSC3407 and Students must be enrolled in one of the following Programs: BINH or GCAC or GCPC or GDAC or GDPC or MCOP or MPIT or MPCP
CSC8417 Advanced Web Data Management	1	3	1	3			Pre-requisite: Students must be enrolled in one of the following Programs: BINH or G

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	
							CAC or GCPC or GDAC or GDPC or MCOP or MPIT or MPCP OE
CSC8409 XML and Semantic Web Services	1	2		2			Pre-requisite: Students must be enrolled in one of the following Programs: MCOP or MPIT OE
CSC8418 Object-Oriented Design with UML	1	2	1	2			Pre-requisite: Students must be enrolled in one of the following Programs: MCOP or MPIT OE
CSC8490 Computing Complementary Studies B*	1	2	1	2			Pre-requisite: Students must be enrolled in one of the following Programs: BINH or G CAC or GCPC or GDAC or GDPC or MCOP or MPIT or MPCP

Footnotes

- * The two Computing Complementary Studies courses are designed to allow students to pursue studies in Computing not contained in the program. These studies could be staff-initiated and depend on staff research interests and/or area of special expertise or may be initiated by students. If student-initiated, the student will be required to submit a proposal and a staff member would have to agree to supervise the student. In both instances the Program Coordinator would need to approve the study.
- 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.