

Master of Computing (MCOP) - MComp

CRICOS code (International applicants): 030284A

	On-campus	Distance education
Semester intake:	Semester 1 (March) Semester 2 (July)	Semester 1 (March) Semester 2 (July) Semester 3 (November)
Campus:	Toowoomba	-
Fees:	Commonwealth supported place International full fee paying place	Commonwealth supported place International full fee paying place
Standard duration:	1.5 years full-time, 4 years part-time (This program may be fast-tracked in 3 semesters by undertaking 4 courses per semester)	
Program articulation:	From: Graduate Diploma of Information Technology (Faculty of Sciences)	

Contact us

Future Australian and New Zealand students	Future International students	Current students
Ask a question Freecall (within Australia): 1800 640 678 Phone (from outside Australia): +61 7 4631 5315 Email: studysci@usq.edu.au	Ask a question Phone: +61 7 4631 5543 Email: international@usq.edu.au	Ask a question Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email: usqassist@usq.edu.au

Program focus

This program provides students with the opportunity to add to their knowledge and skills obtained in an undergraduate program in computing. This will be accomplished by students undertaking coursework of a different type or at a higher level than in their undergraduate program. In addition, students studying the Master of Computing will undertake a four-unit project, and research training to qualify them for PhD studies.

Program objectives

The general objective of the Master of Computing is to produce graduates who possess high-level skills in computing theory, practice and research, who are attractive to employers, and are able to contribute to an appropriate professional body. Graduates will be able to pursue further studies, such as a [Doctor of Philosophy](#), will be able to contribute to the discipline of computing, take advantage of research literature, and have an understanding of how to undertake their own research.

Graduates will be able to:

- design, manage and develop complex software systems in an effective manner
- understand a broad range of topics in theoretical computer science
- undertake a study of the literature in an area of computer science and make an assessment of that area
- apply theoretical concepts from computer science to appropriate computing problems
- identify computing problems requiring further research and develop research methods for those problems.

Admission requirements

To be considered for entry to the program applicants must:

- hold a Bachelor's degree from a recognised University in the field of computing; or
- have completed either the [Graduate Diploma of Information Technology \(Faculty of Sciences\)](#), the Graduate Diploma of Professional Computing or the Graduate Diploma of Advanced Computing through USQ; or
- have an approved qualification at least equivalent to one of the above.

International Applicants

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

How to apply

Domestic students

[Application for postgraduate programs](#) may be made directly to USQ. You should ensure you submit your application by the [closing dates](#).

International students

This program is offered to international students. An international student is a person who is not an Australian or New Zealand citizen and not an Australian permanent resident. Please refer to [USQ International](#) for information about entry requirements, visa arrangements and how to apply.

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

To be eligible for the award of Master of Computing, each student is required to complete at least eight units of coursework and a four-unit research project. Any courses completed as part of an undergraduate program for which an award has been given, will not attract credit for the Master of Computing.

Required time limits

Students have a maximum of 6 years to complete this program.

Coursework

The coursework will consist of courses chosen from those in the table below.

At least four courses will be from Level 8 as listed in the Group 2 Courses. Exemptions or credit for previous study will not be permitted except for incomplete studies. However, if deemed appropriate with the aims of the program, and subject to approval by the Program Coordinator, students may include up to three units of other study at the appropriate level.

Group 1 Courses		
Semester 1	Semester 2	Semester 3

CSC3400 Database Systems	CSC3412 System and Security Administration	
CSC3403 Comparative Programming Languages	CSC3413 Network Design and Analysis	
CSC3407 Network Fundamentals and Routing	CSC3419 XML and the Web	
	CSC3427 Switching, Wireless and WAN Technologies	
Group 2 Courses		
Semester 1	Semester 2	Semester 3
CSC8407 Wireless and Internet Technology	CSC8417 Advanced Web Data Management	CSC8416 Advanced Programming in Java
CSC8410 Independent Studies in Computing/Mathematics/Statistics A	CSC8409 XML and Semantic Web Services	CSC8408 e-Commerce Technology
CSC8415 Computer Network Programming	CSC8411 Independent Studies in Computing/Mathematics/Statistics B	
	CSC8418 Object-Oriented Design with UML	
CSC8480 Computing Complementary Studies A	CSC8490 Computing Complementary Studies B	
CSC8419 Cryptography and Security		

Research

In addition to the coursework, each student is required to complete a four-unit research project. To satisfy this requirement, students will complete both of the two-unit courses, [MSC8001 Research Project Methodology](#) and [MSC8002 Research Project Dissertation](#). Subject to approval by the Postgraduate Coordinator, these courses may be taken in Semester 1 or 2.

IT requirements

If students are purchasing a new computer, the following minimum configuration is recommended: Pentium, 64Mb RAM, 8Gb Hard Disk, CDROM, Sound Card, SVGA with 2Mb memory, three-button mouse, modem, printer, dual boot operating system: Linux and Microsoft Windows.

If students already have a computer with specifications that differ from the above, it may be suitable but they should list the specifications of their computer and mail or email them to the Masters Coordinator, email masters.coord@www.sci.usq.edu.au to check its suitability.

In addition, students are strongly advised to have access to the Internet from home.

The University has installed 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.

Exit points

Students enrolled in this Master's program who wish to exit without completing the program may be awarded the Graduate Diploma of Advanced Computing (GDAC) if they have completed at least eight units or the Graduate Certificate in Advanced Computing (GCAC) if they have completed at least four units

Recommended enrolment pattern

There is no recommended enrolment pattern for this program. Students should select their own, using the list provided at <http://www.sci.usq.edu.au/courses/> keeping in mind the requirements to graduate outlined above in the Program Structure. If unsure about a suitable enrolment pattern, students should contact the Program Coordinator.