Master of Computing (MCOP) - MComp

CRICOS code (International applicants): 066847G

	On-campus*	**External***	**Online**
Semester intake:	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)
Campus:	Toowoomba	Toowoomba	-
Fees:	Commonwealth supported place Domestic full fee paying place International full fee paying place	Commonwealth supported place Domestic full fee paying place International full fee paying place	
Standard duration:	1.5 years full-time, 3 years part-time, 4.5 years maximum		
Program articulation:	From: Graduate Diploma of Information Technology		

Footnotes

* Please consult the Faculty of Health, Engineering and Sciences for more information about articulation from the ; Graduate Diploma of Information Technology

Contact us

Future Australian and New Zealand students	**Future International students**	**Current students**
Ask a question Freecall (within Australia): 1800 269 500 Phone (from outside Australia): +61 7 4631 5315 Email: study@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: usq.support@usq.edu.au

Professional accreditation

This program is accredited at Professional level by the Australian Computer Society.

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
- undertak

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 09. Graduates at this level will have specialised knowledge and skills for research, and/or professional practice and/or further learning.

The full set of levels criteria and qualification type descriptors can be found by visiting www.aqf.edu.au.

Admission requirements

To qualify for entry to the program applicants must:

- hold a Bachelor's degree from an Australian University in the field of computing; **OR**
- hold a Bachelor's degree from a recognised University in the field of computing; **OR**
- have completed either the Graduate Diploma of Information Technology, 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.

All students are required to satisfy the applicable Engati

as part of an undergraduate program for which an award has been given, will not attract credit for the Master of Computing. Exemptions or credit for previous study will not be permitted except for incomplete studies.

Students seeking Skill Accreditation, or other accreditations from professional bodies such as the Australian Computer Society, should seek advice from the professional bodies before they apply for credits or exemptions.

Required time limits

Students have a maximum of 4.5 years to complete this program.

Coursework

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

At least three courses will be Group 1 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 Faculty of Health, Engineering and Sciences, students may include up to three units of other study at the appropriate level.

Students seeking Skill Accreditation, or other accreditations from professional bodies such as the Australian Computer Society, should seek advice from the professional bodies before they apply for credits or exemptions.

Coursework	
Group 1 Courses	
Semester 1	**Semester 2**
CSC8407 Wireless and Internet Technology	CSC8421 Network Security
CSC8410 Independent Studies in Computing/Mathematics/Statistics A	CSC8426 Advanced Web Technology#
CSC8416 Advanced Programming in Java	CSC8411 Independent Studies in Computing/Mathematics/Statistics B
CSC8417 Advanced Web Data Management	CSC8415 Computer Network Programming
CSC8419 Cryptography and Security	CSC8420 Mobile Systems†
CSC8480 Computing Complementary Studies A	CSC8490 Computing Complementary Studies B
Group 2 Courses^	
Semester 1	**Semester 2**
CSC8500 Advanced Relational Database Design and Technology	CSC8513 Network Performance Analysis
CSC8503 Principles of Programming Languages	CSC8527 Scaling and Connecting Networks
CSC8512 Advanced System Administration	
CSC8507 Networking Technologies	

Footnotes

\#   This course replaces CSC8409 which has been discontinued.
†   CSC8420 will not run in 2016
^   From S2, 2016 CSC3400, CSC3403, CSC3412, CSC3407, CSC3413 and CSC3427 will be replaced with Level 8 courses.

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 I and MSC8002 Research Project II. Subject to approval by the Postgraduate Coordinator, these courses may be taken in Semester 1 or 2.

IT requirements

All students are required to have access to the Internet and to a personal computer running Microsoft Windows and Linux. The Department provides assistance with installing Linux for students who may not have done so before.

program structure information. Enrolment requirements must be satisfied before enrolling in a course. If unsure about a suitable enrolment pattern, students should contact the Faculty of Health, Engineering and Sciences.

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CSC8480 Computing Complementary Studies A	2	1	2	1			Pre-requisite: Students must be enrolled in one of the following Programs: MCOP or MPIT or MCOT or MCTE

Footnotes

\# This course replaces CSC8409, which has been discontinued.
† CSC8420 will not run in 2016
* 2 units

Recommended Enrolment Pattern - Semester 2 intake

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.

The following enrolment pattern represents possible plans and may be modified to suit individual needs. Students should plan their enrolment making sure that they have fulfilled all requirements as shown in the program structure information. Enrolment requirements must be satisfied before enrolling in a course. If unsure about a suitable enrolment pattern, students should contact the Faculty of Health, Engineering and Sciences.

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First Year							
CIS8010 Information Systems Project Management	1	2			1	2	
Choose one of the following::							
							Pre-requisite: Students must be enrolled in one of the following Programs: GDTI o(