

# Master of Computing Technology (MCTN) - MCTN

OS code (International applicants): 083407A

	<b>On-campus</b>	<b>External</b>
<b>Semester intake:</b>	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)
<b>Campus:</b>	Toowoomba	-
<b>Places:</b>	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
<b>Standard duration:</b>	2 years full-time, 4 years part-time, 6 years maximum	
<b>Program articulation:</b>	From: <a href="#">Graduate Diploma of Information Technology</a> ; <a href="#">Graduate Certificate of Science</a> To: <a href="#">Doctor of Philosophy</a>	

## Contact us

## 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](http://www.aqf.edu.au).

## Admission requirements

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

- Completion of an Australian university three year Bachelor degree in any area, or equivalent Or equivalent professional work experience, as determined through the [Credit and Exemption Procedure](#). And in either case:
- Demonstrated introductory knowledge of computing, consistent with that found in [MAT1101 Discrete Mathematics for Computing](#) and [CSC1401 Foundation Programming](#) and [CIS1000 Information Systems Concepts](#).
- English Language Proficiency requirements for Category 2.

All students are required to satisfy the applicable [English language requirements](#).

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.

## Program fees

### Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of a student's higher education and students pay a [student contribution amount](#), which varies depending on the courses undertaken. Students 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

## Program structure

Master of Computing Technology (MCTN) consists of 16 units. All students must complete:

- one coursework specialisation (12 units)
- one research specialisation (4 units)

### Coursework specialisations

- **Software and the Web**
  - two core courses - [CSC8600 Advanced ICT Professional Project](#) and [CIS8010 Information Systems Project Management](#)
  - ten specialisation courses
- **Networking and System Security**
  - two core courses - [CSC8600 Advanced ICT Professional Project](#) and [CIS8010 Information Systems Project Management](#)
  - ten specialisation courses
- **Unspecified**
  - two core courses - [CSC8600 Advanced ICT Professional Project](#) and [CIS8010 Information Systems Project Management](#)
  - ten approved courses from Group 1, 2 and 3 courses subject to the following restrictions
    - no more than three units may be selected from Group 1 Level 2 courses
    - at least four units must be selected from Group 3 Level 8 courses

### Research specialisations

- **Applied Research**
  - three research training courses - [SCI4405 Research Practice and Ethics](#) , [SCI8101 Science in Practice](#) and [CSC8001 Introduction to Data Science and Visualisation](#)
  - one additional Level 8 approved course (from Group 2 or 3)
  - Note: Upon graduation, students will not be eligible for enrolment in USQ's Doctor of Philosophy (PhD) program.
- **Advanced Research**
  - to be eligible to enrol, students must have completed 8 units of coursework study with a minimum GPA of 5.5
  - a student can only enrol in the Advanced Research track if a suitable project and an academic supervisor is available
  - two project courses - [MSC8001 Research Project I](#) (2 units) and [MSC8002 Research Project II](#) (2 units)
  - Note: Upon graduation, students will be eligible to apply for USQ's Doctor of Philosophy (PhD) program.

Students who want to select courses from outside the following table need approval from the Faculty of Health, Engineering and Sciences.

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MAT2409 High Performance Numerical Computing	CSC2407 Introduction to Software Engineering CSC2408 Software Development Tools
<b>Group 2 Courses**</b>	
<b>Semester 1</b>	<b>Semester 2</b>
CSC8500 Advanced Relational Database Design and Technology	CSC8513 Network Performance Analysis  CSC8527 Scaling and Connecting Networks
CSC8503 Principles of Programming Languages	
CSC8507 Networking Technologies	
CSC8512 Advanced System Administration	
<b>Group 3 Courses</b>	
<b>Semester 1</b>	<b>Semester 2</b>
CSC8407 Wireless and Internet Technology	CSC8426 Advanced Web Technology
CSC8410 Independent Studies in Computing/Mathematics/Statistics A	CSC8411 Independent Studies in Computing/Mathematics/Statistics B
CSC8419 Cryptography and Security	CSC8420 Mobile Systems
CSC8480 Computing Complementary Studies A	CSC8490 Computing Complementary Studies B
CSC8416 Advanced Programming in Java	CSC8421 Network Security
CSC8422 Web Data Visualisation*	CSC8415 Computer Network Programming

#### Footnotes

\*\* The courses in Group 2 are closely related to undergraduate courses. Students who have completed or who are enrolled in the undergraduate companion course cannot enrol in the Group 2 course. The following table indicates, for each Group 2 course, the incompatible undergraduate course.

\* This course replaces CSC8417 with effect from S1, 2017.

Group 2 course	Incompatible undergraduate course
CSC8500 Advanced Relational Database Design and Technology	CSC3400 Database Systems
CSC8503 Principles of Programming Languages	CSC3403 Comparative Programming Languages
CSC8507 Networking Technologies	CSC3407 Network Fundamentals and Routing
CSC8512 Advanced System Administration	CSC3412 System and Security Administration
CSC8513 Network Performance Analysis	CSC3413 Network Design and Analysis
CSC8527 Scaling and Connecting Networks	CSC3407 Network Fundamentals and Routing

These tables of courses may vary from time to time as the range of courses offered within the University changes. Courses which are relevant to the goals of a student and consistent with the purposes of this program may be allowed at the discretion of the Program Coordinator.

Students may undertake a specialisation in one of the fields shown in the following table by completing the associated courses. A specialisation represents a grouping of related courses. Note that it is not compulsory to undertake a specialisation in this program.



## Articulation

Upon successful completion of the [GDTI Graduate Diploma of Information Technology](#) or [GCSC Graduate Certificate of Science](#), students may articulate into the Master of Computing Technology (MCTN) with up to a maximum of eight units of credit in accordance with the MCTN requirements.

Students may apply to enrol in the USQ [Doctor of Philosophy](#) (PhD) program or the USQ [Doctor of Applied Science](#) upon completion of the Master of Computing Technology, Advanced Research specialisation, if they have achieved an overall GPA of 5.5 or higher.

Students who have completed the Master of Computing Technology, Applied Research specialisation, will not be eligible for enrolment into any USQ higher degree research award such as the Doctor of Philosophy (PhD) program or the USQ Doctor of Applied Science program.

## Exit points

Students enrolled in the MCTN program who wish to exit without completing the program may be awarded:

- the Graduate Diploma of Professional Computing (GDPC) if they have completed at least eight units, including 4 units at Level 8, (excluding exemptions and credit transfers); **or**
- the Graduate Certificate of Professional Computing (GCPC) if they have completed at least four units, including 2 units at Level 8, (excluding exemptions and credit transfers) in accordance with the GCPC requirements.

## Credit

Candidates for admission to the Master of Computing Technology program are eligible to seek credit, in accordance with University regulations. The maximum number of credits permitted will be four (4) undergraduate units and four (4) postgraduate units from group 2 courses listed in the Program Structure. Studies used as the basis for claims for credit will normally have been completed within a period of five years prior to the date of application for credit.

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

## Enrolment

Students should select their own courses, using the list provided at Program structure keeping in mind the requirements to graduate outlined also in the Program structure. If unsure about a suitable enrolment pattern, students should contact the Program Coordinator.

Students wishing to specialise should follow one of the recommended enrolment patterns below.

## Software and the Web specialisation recommended enrolment pattern - Semester 1 entry



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