

Master of Information Technology (MCTN) - MCTN

CRICOS code (International applicants): 083407A

	On-campus	Online
Start:	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)
Campus:	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:	2 years full-time, 4 years part-time, 6 years maximum	
Program articulation:	From: 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](#) (ACS) and, through the Seoul Accord, is recognised in other countries. The Seoul Accord is a multi-lateral agreement that allows ACS accreditation to be recognised globally. This means that graduates from this program will have their degree recognised by the other countries who are members of the Accord.

Program aims

The Master of Information Technology aims to provide students from any discipline with the opportunity to enhance their current knowledge or upgrade their professional qualifications. Through the selection of specialisations, students will be able to further develop and extend their skills by choosing from Software development, Network Engineering, or Computing Technology specialisations. This program equips students with the technical expertise and knowledge to become effective IT professionals by applying critical thinking and analytical skills required to adapt to an ever-changing technological environment.

Program objectives

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

- Incorporate concepts of professionalism, cultural awareness and ethical practice within the IT work environment
- Effectively communicate (both written and verbally) and employ appropriate interpersonal skills
- Discover and analyse requirements and devise specification for software systems or secure networks
- Independently or in teams, design and implement IT systems and/or computer networks to support business environments

- Evaluate and apply methods for planning and managing large software or network projects
- Employ appropriate tools and construct technical environments for different computing platforms
- Apply autonomous learning and leadership skills in a technology context.

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 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
A minimum of five years' professional work experience equivalent to a qualification at AQF Level 7.
- 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 structure

The program consists of 16 units comprised of:

- two (2) core courses
- two (2) approved courses (postgraduate CIS or CSC coded courses)
- one eight (8) unit specialisation
- four (4) elective course (Postgraduate courses)

Required time limits

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

Core courses

Courses	Online	Toowoomba	Springfield
CSC5020 Foundations of Programming	1,2	1,2	
CIS5310 IS/ICT Project Management	1,2,3	1	1

Software Development specialisation

Courses	Online	Toowoomba	Springfield
CSC5090 Foundations of IT Systems Administration	1,2	1,2	
CSC8710 Software Design and Modelling	2	2	
CSC8720 Programming Algorithms	1,2	1,2	
CSC8740 Client-side Web Technology	1,2	1,2	
CSC8450 Relational Database Systems *	1	1	
CSC8460 Advanced Programming Languages *	2	2	
CSC8470 Server-side Web Technology ^	2	2	2
CSC8600 Advanced ICT Professional Project	1,2	1,2	

Footnotes

* being introduced in 2022

^ Unavailable in S2 2022

Network Engineering specialisation

Courses	Online	Toowoomba	Springfield
CSC5050 Networking Foundations	1,2	1,2	
CSC8510 Internetworking	1,2	1,2	
CSC8520 Securing Networks	1,2	1,2	1
CSC8540 Routing and Switching *#	1,2	1	
CSC8360 Wireless Networking ^	2	2	
CSC8370 Network Security Management	2	2	
CSC8380 Designing Networks *	2	2	
CSC8600 Advanced ICT Professional Project	1,2	1,2	

Footnotes

- * being introduced in 2022
- # Students must email the examiner prior to enrolment to receive enrolment approval
- ^ Unavailable in S2 2022

Computing Technology specialisation

Courses	Online	Toowoomba	Springfield
CSC5050 Networking Foundations	1,2	1,2	
CSC5090 Foundations of IT Systems Administration	1,2	1,2	
CSC8520 Securing Networks	1,2	1,2	1
CSC8740 Client-side Web Technology	1,2	1,2	
CSC8370 Network Security Management	2	2	
CSC8450 Relational Database Systems *	1		
CSC8470 Server-side Web Technology [^]	2	2	2
CSC8600 Advanced ICT Professional Project	1,2	1,2	

Footnotes

- * being introduced in 2022
- ^ Unavailable in S2 2022

Research Courses

Students wishing to pursue a PhD are encouraged to complete the below courses as their electives.

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