

Undergraduate Certificate of Engineering Fundamentals (UCCE) - UCertEngFun

	Online
Start:	Semester 1 (February) Semester 2 (July)
Fees:	Commonwealth supported place
Standard duration:	0.5 year full-time
Program articulation:	To: Diploma of University Studies ; Associate Degree of Engineering ; Bachelor of Engineering Science ; Bachelor of Engineering (Honours)

Contact us

Future Australian and New Zealand 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 Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email usq.support@usq.edu.au

Program aims

This program is designed for people interested in pursuing a career in engineering. Students will build knowledge across engineering systems including foundational concepts in engineering, engineering design, engineering materials and mathematics.

Program objectives

On completion of this program graduates should be able to:

- utilise foundation knowledge, skills and competencies in engineering
- reflect on the nature of award-level study
- use effective communication and interpersonal skills

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 05. Graduates at this level will have specialised knowledge and skills for skilled/paraprofessional work and/or further learning.

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

Program Information Set

View USQ's admission criteria, student profiles and a summary of all offers made under [Course Admission Information Set](#) via the QTAC website.

Admission requirements

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

- Admission into this short program is available to eligible Commonwealth Supported applicants, who are aged 17 years or over. USQ assumes your knowledge is equivalent to senior high school English (Units 3 & 4, C).

Program fees

Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of a students' 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 [HECS-HELP](#).

Program structure

Students must successfully complete four compulsory core courses before they are able to graduate with the Undergraduate Certificate of Engineering Fundamentals.

Required time limits

Students have a maximum of 1 year to complete this program.

Core courses

There are four compulsory courses:

- [ENG1002 Introduction to Engineering and Built Environment Applications](#)
- [ENG1100 Introduction to Engineering Design](#)
- [MEC1201 Engineering Materials](#)
- [DIP1003 Essential Mathematics](#) OR [ENM1500 Introductory Engineering Mathematics](#)[#]

Enrolment involves the completion of an online diagnostic test to determine the appropriate mathematics course

IT requirements

Access to an up-to-date computer is necessary. On-campus students can access appropriately equipped laboratories, but should consider acquisition of their own computer. Students should be able to access a computer with the following [minimum standards](#). All students should have access to email and the Internet via a computer running the latest versions of Internet web browsers such as Internet Explorer or Firefox. The University has a wireless network for on-campus 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. Specialist software is required for some courses.

Articulation

Successful completion of this program will enable four courses of credit towards the [Diploma of University Studies](#). It will also provide entry to, and up to four courses credit towards the [Associate Degree of Engineering](#) and enable students to progress to the [Bachelor of Engineering Science](#) or [Bachelor of Engineering \(Honours\)](#) in a range of engineering specialisations.

Recommended enrolment pattern

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.

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
ENG1002 Introduction to Engineering and Built Environment Applications					1	1,2	
ENG1100 Introduction to Engineering Design					1	1,2	
MEC1201 Engineering Materials					1	1,2,3	
Choose one of the following two courses:							
DIP1003 Essential Mathematics[#]					1	1,2,3	
ENM1500 Introductory Engineering Mathematics[#]					1	1,2,3	

Footnotes

Enrolment involves the completion of an online diagnostic test to determine the appropriate mathematics course