# **Graduate Certificate in Engineering Science (GCNS) - Grad Cert Eng Sci**

<b>Eng Sci</b> CRICOS code (International applicants): 067687KEeduc54.771 0 0 1 59.222.8184624.318481 lOn-campusKFebruary)1

## **Program objectives**

Students who successfully complete the Graduate Certificate in Engineering Science will be able to demonstrate their ability to:

- to enable students to acquire, and demonstrate that they possess, the specified graduate attributes and capabilities;
- to enable students to acquire in-depth technical competence in one of the following fields:

Agricultural Engineering

Civil Engineering

Electrical and Electronic Engineering

**Environmental Engineering** 

Geographical Information Systems

Mechanical Engineering

**Power Engineering** 

Structural Engineering

Surveying

- to enable students from diverse and non-traditional backgrounds and locations to enrol in the program and to provide them with opportunities to acquire the skills necessary to complete the program in the normal time;
- to enable students to be empowered as learners through the provision of a wide range of teaching and learning styles and modes in their program;
- to ensure that all students, regardless of the mode of study, have equality of opportunity in acquiring the specified graduate attributes and capabilities.

## **Admission requirements**

To be eligible for admission to the program, candidates must possess one of the following requirements:

- an appropriate three year engineering degree in the relevant (cognate) specialisation (major field) awarded by an Australian university, or an equivalent qualification awarded by an Australian or overseas institution;
- an appropriate three or four year engineering degree in non-cognate specialisation (major field) awarded by an Australian university, or an equivalent qualification awarded by an Australian or overseas institution.\*
- \* Entrants may need to undertake courses in addition to the recommended structure, which will involve study longer than the normal duration. International candidates for admission into this program must meet the University's English language proficiency requirements for postgraduate students. Please refer to Section 2.2.3 of the Admissions Policy.

The standing of degrees awarded by an overseas institution will be determined by reference to the Sydney Accord, and Washington Accord, of which Engineers Australia (EA) is a signatory, and Australia Education International (AEI) which is a federal government agency.

## How to apply

#### Domestic students

Application for postgraduate programs may be made directly to USQ.

#### 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.

#### Domestic full fee paying place

Domestic full fee paying places are funded entirely through the full fees paid by the student. Full fees vary depending on the courses that are taken. You are able to calculate the fees for a particular course via the Course Fee Finder.

Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who reside outside Australia pay full tuition fees.

Domestic full fee paying students may be eligible to defer their fees through a Government loan called FEE-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**

The Graduate Certificate in Engineering Science comprises four single unit academic courses as follows:

Schedule A: One core course (One unit)

ENG5001 Professional Skills in Engineering

Schedule B: A Three course major (Three units)

#### Required time limits

Full-time students have a maximum of one year to complete this program. Part-time students have a maximum of two years to complete this program.

A pro-rata adjustment of the maximum time period will apply for those students who transfer from one mode of study to another. A pro-rata reduction in the maximum time period will apply to students who are admitted to a program with advanced standing.

#### Major studies objectives

The major study provides students with knowledge and skills in a specific discipline. The nine major study areas in the Graduate Certificate in Engineering Science are:

Agricultural Engineering
Civil Engineering
Electrical and Electronic Engineering
Environmental Engineering
Geographical Information Systems
Mechanical Engineering
Power Engineering
Structural Engineering
Surveying

#### 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. External students should be able to access a computer with the following minimum standards as advised by the University. 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. A notebook/laptop may be required for some courses.

#### **Articulation**

The Graduate Certificate in Engineering Science, the Graduate Diploma of Engineering Science, and the Master of Engineering Science are a nested suite of programs. Students who have completed the Graduate Certificate in Engineering Science are able to apply to articulate with full credit to the Graduate Diploma of Engineering Science.

#### **Exit points**

Students who are unable to satisfactorily complete the program may apply to transfer to the Bachelor of Engi neering or the Bachelor of Spatial Science as appropriate. They may also apply to have the courses completed in the Graduate Certificate in Engineering Science credited to their new program.

## **Exemptions**

For the Graduate Certificate in Engineering Science no exemptions will be permitted. Candidates who have completed the same or similar courses at USQ or similar courses at another institution should, with the approval of the Program Coordinator, apply to vary their enrolment pattern on the basis of prior study.

#### **Enrolment**

Students should note that some of the courses specify enrolment requirements (prerequisites). Students should therefore refer to the Course Specification section of the USQ Web to determine the enrolment requirements for the courses they intend enrolling in. Students should avoid enrolling in courses for which they do not have sufficient pre-requisite knowledge. Students will be expected to rectify any deficiencies in their pre-requisite knowledge by private study, guided if necessary by the examiners of the relevant courses. Students should contact Faculty Administration if they encounter problems while enrolling in courses with requisites.

#### Agricultural Engineering Major recommended enrolment pattern

Major study: Ag	ricultura	I Engine	ering (N	/ajor St	udy Cod	le: 1619	7)
Course	Year of program and semester in which course is normally studied						Enrolment requirements
		ampus NC)		ernal KT)		line EB)	
	Year	Sem	Year	Sem	Year	Sem	
AGR3305 Precision and Smart Technologies in Agriculture	1	1	2	1			
ENV5205 Solid and Liquid Waste Treatment <sup>^</sup>	2	1		1			Pre-requisite: ENV420/3 or ENV4204 or Students must be enrolled in one of the following Programs: GCEN or

Major study: Med	chanical						


