

Graduate Diploma of Engineering Science (GDNS) - Grad Dip Eng Sci

CRICOS code (International applicants): 067688J

	On-campus	Distance education
Semester intake:	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:	1 years full-time or 2 years part-time or by distance education	
Program articulation:	From: Graduate Certificate in Engineering Science , To: Master of Engineering Science	

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: studyeng@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

Program focus

The [Graduate Diploma of Engineering Science](#) is tailored to provide an exit point from the [Master of Engineering Science](#) program that will enable domestic students to achieve different career goals without having to complete the entire Masters program. The program, through a specialised suite of technical courses in nine different majors, will equip graduates with academic, personal, professional, and technical knowledge of Engineering and Spatial Science that will allow them to support practising professionals.

Professional accreditation

The [Graduate Diploma of Engineering Science](#) is not accredited by any professional bodies other than the University of Southern Queensland.

Program aims

The primary aims of the [Graduate Diploma of Engineering Science](#) are:

- to enable students, who hold appropriate three year engineering qualifications or equivalent in the relevant specialisation (major field), to complete a postgraduate program that will lead to an advanced level of knowledge in an engineering discipline; and

Program objectives

Students who successfully complete the [Graduate Diploma of Engineering Science](#) will be able to demonstrate their ability to:

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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](#).

Domestic full fee paying students may be eligible to defer their fees through a Government loan called [FEE-HELP](#) provided they meet the residency and citizenship requirements.

Australian citizens, Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand

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.

Residential schools

The major practical work requirements associated with each of the Faculty's programs are contained within a series of Practice Courses. These courses are designed to enhance learning, communication and practical skills through laboratory sessions, workshops, seminars, field trips and group activities.

Practice Courses may be undertaken in either on-campus or external mode. Students enrolling externally will be required to attend a compulsory [residential school](#). However, students who enrol in Practice Courses in on-campus mode may be required to undertake a series of weekly activities and/or attend a compulsory residential school. The only final grades available in these courses are Pass (P) or Fail (F).

Practice Courses are zero unit courses that are a compulsory part of the program. However, they do not attract a student contribution charge for Australian residents or a tuition fee for international students. External students should ensure that they are able to attend the residential school prior to enrolling in a Practice Course.

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 Diploma of Engineering Science](#) are able to apply to articulate with full credit to the [Master of Engineering Science](#).

Exit points

Students who have completed four courses in the program may satisfy the requirements for the [Graduate Certificate in Engineering Science](#) and therefore may apply to exit the program with a [Graduate Certificate in Engineering Science](#).

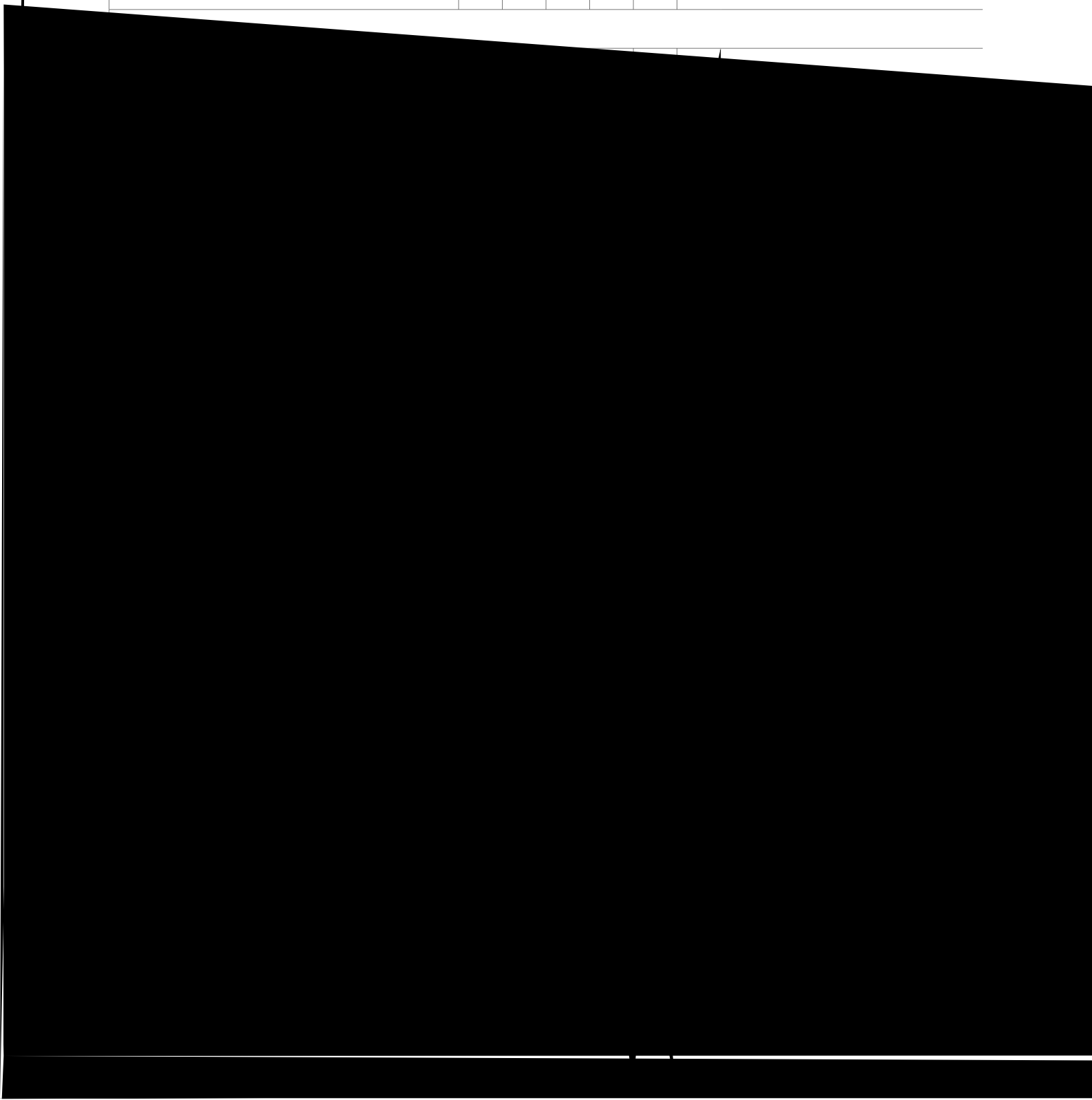
Students who are unable to satisfactorily complete the program may apply to transfer to the [Bachelor of Engineering](#) or the [Bachelor of Spatial Science](#) as appropriate. They may also apply to have the courses completed in the [Graduate Diploma of Engineering Science](#) credited to their new program.

Exemptions

Candidates for admission to the program are eligible to seek exemptions in the program in accordance with existing University regulations. The maximum number of exemptions permitted will be four courses (i.e a total of four units). Studies used as the basis for claims for exemptions must not have been used to meet the requirements of another award. They will normally have been completed within a period of five years prior to the date of application for exemption.

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.



[ELE3803 Electrical Plant](#)

[ENG8104 Asset Management in an Engineering Environment](#)

[ELE3805 Power Electronics Principles and Applications](#)

[ELE3807 Power Systems Analysis](#)

Schedule C: Practice Courses Students

[ELE2912 Electrical and Electronic Practice B](#)

[ELE2913 Electrical and Electronic Practice C](#)

Structural Engineering Major recommended

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@I ropb	Vb^o l c mo l do^ j ^ka pb j bpqbofk t ef`e `I ropb fp klo j ^iiv pqr afba						Bkoli j bkq obnr fob j bkqap
	Lk*^ ^ j m rp %LK@&		Buqbok^i %BUQ&		L kifkb %LKI&		
	Vb^o	Pb j	Vb^o	Pb j	Vb^o	Pb j	
							GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS
CIV4508 Structural Design II	2	1	3	1			Pre-requisite: CIV3505 and CIV3506 or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS
ENG8802 Advanced Prestressed Concrete]	2	2	4			2	
ENG8803 Mechanics and Technology of Fibre Composites						1	Pre-requisite: CIV3506 or MEC3203 or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS or MENC
Schedule C: Practice Courses Students must complete two of the courses listed in this schedule.							
CIV3907 Civil Systems Practice	1		1	3			Pre-requisite: CIV2503 or Students must be enrolled in one of the following Programs: GDNS or MENS
CIV4908 Civil Design Practice^	1		2	2			Pre-requisite: CIV4508 or Students must be enrolled in one of the following Programs: MEPR or GDNS or MENS

Footnotes

J Offered Odd Years Only

^ This course is not offered in the on-campus mode. On-campus students should enrol in the external mode of this course.

Surveying Major recommended enrolment pattern

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	Lk*^ ^ j m rp %LK@&		Buqbok^i %BUQ&		L kifkb %LKI&		
	Vb^o	Pb j	Vb^o	Pb j	Vb^o	Pb j	
Schedule A: Core Courses Students must complete all three courses listed in this schedule.							
ENG5001 Professional Skills in Engineering	1	1,2	1	1,2			
MAT2500 Engineering Mathematics 3	1	2	1	2			Pre-requisite: MAT1102 or MAT1502 or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MENS
ENG3103 Engineering Problem Solving Computations	1	2	2	2			Pre-requisite: (ENG2102 and (MAT1502 or MAT1102)) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS
Schedule B: Major Courses Students must complete five of the courses listed in this schedule.							
ENG4104 Engineering Problem Solving Simulations	2	2	3	2			Pre-requisite: ENG3103 or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS
ENG8001 Masters Dissertation A	1	1,2					
SVY3202 Photogrammetry and Remote Sensing	2	1	4	1			
SVY2105 Survey Computations B	1	2	2	2			Pre-requisite: SVY2106 or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MENS

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	L k*^ ^ j m rp %LK@&		Buqbok^i %BUQ&		L kifkb %LKI&		
	Vb^o	Pb j	Vb^o	Pb j	Vb^o	Pb j	
URP4203 Urban and Regional Planning	1	1		1			
SVY3107 Geodetic Surveying B	1	2	2	2			Pre-requisite: SVY1110 or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MENS
ENG8104 Asset Management in an Engineering Environment	2	1	4	1			
SVY3304 Cadastral Surveying	1	2	2	2			Pre-requisite: (SVY1102 and SVY1104) or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MENS
Schedule C: Practice Courses Students must complete all the courses listed in this schedule.							
SVY2903 Surveying and Spatial Science Practice 3	1		1	3			Pre-requisite: SVY1901 and SVY1102 or Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS
SVY3904 Surveying and Spatial Science Practice 4^	1		2	2			Pre-requisite: SVY2903 or Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS

Footnotes

^ On-campus students should enrol in the external offering of this course.