Overview

If you are commencing in Term 2 2020 under the Government's Higher Education Relief Package due to COVID-19, please refer to the advice in the Additional Information section below.

The Graduate Certificate of Engineering Science program is designed for engineers and graduates wishing to develop and expand their knowledge and skills in their current area of expertise.* This will enable students to meet or maintain professional accreditation standards and to provide opportunities for continuing professional development, as well as the opportunity to interact with those at the cutting edge of their discipline.

Students will add breadth to their knowledge of engineering in general and expand their knowledge and skills in engineering management. Students will develop their technical knowledge and ability to analyse engineering problems. They will also gain further skills in solving engineering problems and justifying professional decisions.

The program articulates to the Graduate Diploma of Engineering Science program with full credit for courses completed in the Graduate Certificate program. Students may exit from this proposed program with a Graduate Certificate award if they have completed the required course requirements. A credit average (65%) is generally required to articulate to the next level in the sequence.

(* It is also possible for students to acquire knowledge and skills in a different specialisation at the approval of the Stream Authority. This may require the student to take additional foundation and disciplinary knowledge courses at the discretion of the Stream Authority).

The program is designed to enable students to fulfil a number of needs including:

- Updating technical knowledge and skills in an existing engineering
specialisation

- Acquiring new knowledge and skills in a different engineering specialisation
- Developing and expanding knowledge and skills in engineering management
- Updating qualifications and knowledge to meet or maintain professional accreditation standards
- Providing opportunities for continuing professional development
- Providing opportunities for interaction with those at the cutting edge of the discipline
- Providing a pathway towards the Master's program.

Note: All software required for coursework is provided on the computers in the School computer laboratories. Some students find it advantageous to buy their own computer and software so that they can work at home. Some external courses may require students to own their own computer with Microsoft Office or equivalent. Specialist software packages that are required for external courses will be provided as part of the course pack to students.
Faculty
Faculty of Engineering

Campus
Kensington

Study Level
Postgraduate

Typical duration
0.7 Years

Delivery Mode
Face-to-face

Intake Period
Term 1, Term 2, Term 3

Academic Calendar
3+ Calendar

Minimum Units of Credit
24

Award type
Graduate Certificate

Award(s)
Graduate Certificate in Engineering Science - GradCertEngSc

CRICOS Code
084278G
Program Structure

Students must complete 24 UOC as a standalone program.

Specialisation Requirements

Students must complete at least one of the specialisations below.

Please note that Civil Engineering is offered in Term 1, Term 2 and Term 3 intake, whereas Nuclear Engineering is only offered in Term 1 intake.

SPECIALISATION:

CEICNS  |  24 UOC
Chemical Process Engineering (7320)

CVENGT  |  24 UOC
Civil Engineering (7320)

ELECUS  |  24 UOC
Energy Systems (7320)

ELECVS  |  24 UOC
Electrical Engineering (7320)

ENGGBS  |  24 UOC
Engineering Design and Management (7320)

ENGGRS  |  24 UOC
Nuclear Engineering

MANFGS  |  24 UOC
Engineering Resilience (7320)

SOLAIS  |  24 UOC
Photovoltaics and Solar Energy Engineering (7320)
Sample Programs

To access sample program(s), please visit:

Engineering Science

Enrolment Disclaimer

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Admission Requirements

Entry Requirements

In order to be admitted to the program students need a recognised four year Bachelor degree in a relevant discipline of engineering with a minimum 65% average.

NOTE: The minimum average required for entry is as determined by the UNSW Postgraduate Entry Score Calculator. Students from a non-211 university in China need a minimum 70% average.

Those without a recognised four year Bachelor degree in a relevant discipline of engineering with a minimum 65% average are required to argue their prior learning is equivalent to this qualification. For example, a 3- or 4-year Bachelor of Engineering or Science combined with relevant discipline experience (exact positions and roles that will be considered relevant to be decided by each specialisation) may be recognised.

For more information about admission requirements for various UNSW programs, visit the following website(s):

Domestic Students
International Student
Program Requirements

Progression Requirements

The courses in each specialisation form an articulated sequence. Students who complete the Graduate Certificate, Graduate Diploma or Master program may upgrade to the next program with full credit for the courses undertaken in the previous program(s), provided they have completed the previous program at UNSW. A credit average (65) is generally required to articulate to the next level in the sequence. Students who have enrolled in a program will be permitted to exit with a lower qualification in the specialisation sequence providing they have completed the requirements of that program. Subject to the approval of the program authority and available places, students will be permitted to transfer to another specialisation with credit transfer being subject to the requirements of the specialisation into which the student is transferring.

For more information on university policy on progression requirements please visit Academic Progression.
Pathways

Articulation Arrangements

Other program(s) within articulated suite:

**Graduate Diploma in Engineering Science - GradDipEngSc**
**5341 Engineering Science**

Faculty: Faculty of Engineering  
Campus: Kensington  
Units of Credit: 48  
Typical Duration: 1 Years

Read More

**Master of Engineering Science - MEngSc**
**8338 Engineering Science**

Faculty: Faculty of Engineering  
Campus: Kensington  
Units of Credit: 96  
Typical Duration: 2 Years

Read More
**Additional Information**

**Domestic students commencing in Term 2 2020 under the Government’s COVID-19 Higher Education Relief Package can enrol in a maximum of 4 courses (24 units of credit) across Term 2 and Term 3 2020 at the discounted fee rates.** Further information about the COVID-19 Higher Education Relief Package is at [https://student.unsw.edu.au/herp](https://student.unsw.edu.au/herp)


The following courses are available online. **You should check the rules of your specialisation on the relevant Handbook page and enrol accordingly.**


**Other Term 2 courses:** AVIA5015, AVIA5022, COMP6447, COMP9021, CVEN4104, CVEN4202, CVEN4301, CVEN4402, CVEN4703, CVEN9521, CVEN9630, CVEN9888, CVEN9888, ENGG9743, GSOE9340, GSOE9360, GSOE9820, GSOE9830, MANF9400, SOLA3010, SOLA4012, SOLA9103

GSOE9830 Economic Decision Analysis in Engineering MANF9420 Operations and Supply Chain Management in Engineering MANF9420 Operations and Supply Chain Management in Engineering SOLA9001 Photovoltaics SOLA9120 Advanced Photovoltaic Manufacturing TELE9754 Coding and Information Theory

**Other Term 3 courses:** AVIA5018, CEIC8102, CHEN6701, COMP9021, CVEN4103, CVEN4204, CVEN4308, CVEN4405, CVEN9513, CVEN9612, CVEN9731, CVEN9802, ELEC4602, ELEC4603, ELEC4605, ELEC4632, ELEC4632, ELEC9701, ELEC9719, GMAT9606, GSOE9111, GSOE9210, GSOE9210, GSOE9445, GSOE9810, GSOE9810, GSOE9830, MANF9543, MMAN4400, SOLA5051, SOLA5052, SOLA5056, SOLA5056, SOLA9001, TELE4651
**Program Fees**

At UNSW fees are generally charged at course level and therefore dependent upon individual enrolment and other factors such as student's residency status. For generic information on fees and additional expenses of UNSW programs, click on one of the following:

- Domestic Students
- Commonwealth Supported Students
- International Students

**Additional Expenses**

Field projects, site visits and industry seminars or lectures are a requirement of some courses and may involve additional expense.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179