Diploma of Engineering and Spatial Science Foundations (DESF) - DipESSF

| Semester intake: | Semester 1 (February)  
|                  | Semester 2 (July) |
| Fees:           | Commonwealth supported place  
|                 | Domestic full fee paying place  
|                 | International full fee paying place |
| Standard duration: | 1 year full-time, 3 years part-time |
| Program articulation: | To: Associate Degree of Engineering,  
|                  | Associate Degree of Spatial Science, |

Notes:
Details of the Faculty of Engineering and Surveying on-campus and distance mode offerings can be obtained from undergraduate Engineering programs.

Footnotes
# The first four courses are compulsory and are only available online.

Contact us
Future Australian and New Zealand students
Ask a question
Freecall (within Australia): 1800 269 500
Phone (from outside Australia): +61 7 4631 5315
Email: study@usq.edu.au

Future International students
Ask a question
Phone: +61 7 4631 5543
Email: international@usq.edu.au

Current students
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 Diploma of Engineering and Spatial Science Foundations initially equips students with the necessary skills to successfully respond to the numeracy, literacy, and e-literacy demands of both higher education studies and the professional workplace, as well as assisting students to successfully manage the complexities of life/work balance. The diploma program then provides you with a broad introduction to engineering as a science and profession, and the concepts of systems and real world teamwork. Problem solving skills and foundation level mathematical and physics competencies are developed. The program should appeal to those who want to enhance and develop their broad study skills prior to sampling a range of engineering courses in order to determine whether to embark on a more specialised associate degree program from the Faculty of Engineering and Surveying.

Career opportunities
Support for professionals and paraprofessionals working in Engineering and Surveying organisations. Entry level qualifications providing a pathway to further studies and career progression.

Program aims
The principal aim of this program is to equip students with the necessary skills to successfully respond to the numeracy, literacy, and e-literacy demands of both higher education studies and the professional workplace, as well as assisting students to successfully manage the complexities of life/work balance. The diploma program provides students with a broad introduction to engineering and spatial science as a science and profession, and the concepts of systems and real world teamwork. Problem solving skills, and advanced...
mathematical and physics competencies are developed and the program will appeal to those who want to enhance and develop their broad study skills prior to sampling a range of engineering and spatial science courses in order to determine whether to embark on a more specialised associate degree program from the Faculty of Engineering and Surveying.

**Program objectives**
On the successful completion of the Diploma of Engineering and Spatial Science Foundations graduates will have:

- demonstrated an ability to successfully pursue an associate degree program of study in the Faculty of Engineering and Surveying
- acquired sufficient knowledge about engineering and surveying programs of study to make an informed choice about further undergraduate study in the Faculty of Engineering and Surveying
- developed an enhanced awareness of the nature of study in the Faculty of Engineering and Surveying
- developed foundation engineering knowledge, skills and competencies in a series of first year engineering and surveying associate degree courses

**Admission requirements**
International applicants must have a minimum entry level of IELTS 6.0 or equivalent.

There is no specified minimum educational achievement entrance standard.

Normally, to be eligible for enrolment in the program a person will have attained an age of at least 18 years in the year of the proposed enrolment.

Students will need to complete the online application form for entry to the Diploma Programs. All applicants are required to complete online diagnostic tests in Mathematics, e-literacy, and English Communication Skills. Applicants will then be given advice detailing whether the Diploma Program is the most appropriate pathway for them to undertake. Some students may be advised to undertake the Tertiary Preparation Program.

**How to apply**

**Domestic students**
Application for the Foundation Diplomas may be made directly to USQ.

**International students**
This program is available 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. 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 citizens who will be resident outside Australia for the duration of their program pay full tuition fees and are not eligible for 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
This program consists of four core courses followed by four courses of specialisation. Students must successfully complete the four core courses before they will be enrolled in the four courses of specialisation.

Core courses
There are four compulsory courses:

- DIP1000 E-Literacy for Contemporary Society
- DIP1001 Academic and Professional English
- DIP1002 Strategies for Successful Study
- DIP1003 Essential Mathematics

DIP1000 E-Literacy for Contemporary Society and DIP1002 Strategies for Successful Study are co-requisites: they must be studied together, and they must be the first courses undertaken.

For part-time students, DIP1001 Academic and Professional English and DIP1003 Essential Mathematics must be studied after DIP1000 and DIP1002. All four courses can be taken in a single semester for those pursuing full-time studies.

Foundation Studies in Engineering and Spatial Sciences courses
After completing the four compulsory courses students can select four Faculty of Engineering courses from the following selection:

- CMS1000 Communication and Scholarship
- ENG1002 Introduction to Engineering and Spatial Science Applications
- ENG1101 Introduction to Engineering Problem Solving
- ENM1500 Introductory Engineering Mathematics
- ENG1100 Introduction to Engineering Design
- SVY1500 Spatial Science for Engineers
- MEC1201 Engineering Materials
- SVY1110 Introduction to Global Positioning System

To maximise future credit and articulation into an Associate Degree program in the Faculty of Engineering and Surveying, students should choose courses that are relevant to that Associate Degree program.

Program completion requirements
To successfully complete the Diploma of Engineering and Spatial Science Foundations students must successfully complete the four compulsory core courses, and also four courses of specialisation.

Required time limits
Students have a maximum of three years to complete this program.
IT requirements

Students must have reliable and ready access to email and the Internet. Broadband access is required for the four compulsory core courses. Students should have access to a scanner for DIP1003 Essential Mathematics. For information technology requirements, please see the minimum computing standards.

Students undertaking the Diploma of Engineering and Spatial Science Foundations must complete the four compulsory courses first. The recommended enrolment pattern is as follows:

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<th>Course</th>
<th>Year</th>
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<tbody>
<tr>
<td>DIP1000 E-Literacy for Contemporary Society</td>
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<td>DIP1001 Academic and Professional English</td>
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<tr>
<td>DIP1002 Strategies for Successful Study</td>
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<tr>
<td>DIP1003 Essential Mathematics</td>
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Plus the four Engineering and Spatial Science courses referred to in the Program Structure.