

Bachelor of Engineering and Bachelor of Science (BEBS) - BEng BSc

QTAC code (Australian and New Zealand applicants): Toowoomba campus: 907362

CRICOS code (International applicants): 034159G

This program is offered only to continuing students. No new admissions will be accepted. Students who are interested in this study area should consider the [Bachelor of Engineering \(Honours\) Bachelor of Science](#) which will be offered from S1 2014.

	On-campus	External
Start:	No new admissions	No new admissions
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:	5 years full-time, 8 years part-time or external	
Program articulation:	From: Associate Degree of Engineering ; Bachelor of Engineering Technology ; Bachelor of Engineering	

Notes:

See note on part-time study below within Admission requirements.

Contact us

Current students
Ask a question Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email

Program objectives

Graduates of the Bachelor of Engineering and Bachelor of Science program will have met the separate objectives of the [Bachelor of Engineering](#) and the [Bachelor of Science](#) programs.

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:

- have studied four semester units and achieved an exit assessment of "Sound Achievement" or better in each of the following Queensland Senior Secondary School subjects: English and Mathematics B. It is recommended that applicants should also have satisfactorily completed the subject: Physics, or
- be able to demonstrate that they have achieved an equivalent standard in these subjects at another institution, and
- **Australian applicants:** have achieved a Queensland Overall Position (OP) band, or an equivalent Rank based on qualifications and previous work experience, at or above the specified cut-off level.

To be admitted to the program, students who intend studying part-time (i.e. less than six units per year) must be eligible to receive at least 16 units of exemptions. This is necessary to ensure that these students are able to complete the program within the maximum duration of eight years.

All students are required to satisfy the applicable [English language requirements](#).

If students do not meet the English language requirements they may apply to study a University-approved [English language program](#). On successful completion of the English language program, students may be admitted to an award program.

Program fees

Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution tow

Program structure

The program involves five years of full-time study and to be eligible for the combined award, full-time students must complete the requirements of the program within seven years of their initial enrolment in the program.

The program is not available by part-time study or by distance education except for students who are eligible to enter the program with advanced standing of 16 or more units. Students who are eligible to study part-time or by distance must complete the program within eight years of their initial enrolment.

Where students intend to complete the program using a combination of full-time and part-time study the maximum time for completion will be calculated on a pro-rata basis.

For more details of the two programs that comprise this award, applicants are asked to refer to the [Bachelor of Science](#) and [Bachelor of Engineering](#) sections of this Handbook.

The Bachelor of Engineering and Bachelor of Science is a 40-unit program consisting of Academic courses and Practice courses.

Academic courses are normally one-unit courses and involve approximately 155 hours of student work per unit.

Practice courses are zero unit courses and each involves approximately 50 hours of student work. The only grades available for a Practice Course are Pass (P) and Fail (F). A Practice Course is designed to enable students to acquire specific competencies associated with their Engineering major study. These competencies range from specific practical and communication skills through to generic competencies relating to ethical and social responsibility, awareness of the environment, teamwork, etc. For an external student a Practice Course generally involves attendance on-campus for a one-week [residential school](#).

The components of the program are shown in the following table:

ENG1002 Introduction to Engineering and Built Environment Applications	1
ENG2002 Technology, Sustainability and Society	1
ENG3003 Engineering Management	1
ENG1100 Introduction to Engineering Design	1
ENG1101	1
ENG2102	1
ENG4110 Engineering Research Methodology	1
ENG3104 Engineering Simulations and Computations	1
ENG4111 Research Project Part 1	1
ENG4112 Research Project Part 2	1
STA2300 Data Analysis	1
Total	14
Practice Courses	
ENG1901 Engineering Practice 1	0
ENG3902 Professional Practice 1	0
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Students should refer to the list of recommended Elective courses for their Engineering major.

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The Science major will enable students to increase their knowledge and skills in a particular field of science. Students must select one of the following eight-unit majors as their Science major.

Science major studies:
Biology
Computing
Environment and Sustainability
Human Physiology
Mathematics
Physical Sciences

The courses comprising each of the Science majors are listed in the Bachelor of Science section of this Handbook.

Students who select the Mathematics major need to replace [MAT2100 Algebra and Calculus II](#) in that major with another mathematics third level course as [MAT2100 Algebra and Calculus II](#) is equivalent to MAT2500

Where a course listed in a student's Science major is also listed in the core studies component of the program or in their Engineering major, then the student must select another course from the Science major or, with the approval of the Faculty of Health, Engineering and Sciences, another course offered by the Faculty.

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.

Exit points

Students who, for whatever reason, are unable to complete the Bachelor of Engineering and Bachelor of Science and who satisfy all of the requirements of either the [Bachelor of Engineering](#), the [Bachelor of Engineering Technology](#), the [Associate Degree of Engineering](#) or the [Diploma of Engineering Studies](#) may be permitted to exit with that award.

Course transfers

Students may enter the program with advanced standing. Students who are enrolled in either the [Bachelor of Engineering](#) program or the [Bachelor of Science](#) program may transfer to the program. If they have completed up to one year of one of those programs they would normally be able to complete the program in the minimum time, after four more years of full-time study. Other students may require longer than the minimum time.

Honours

The Bachelor of Engineering and Bachelor of Science may be awarded with Honours in the engineering component of the award. The class of honours to be awarded to a student is dependant upon:

- the Grade Point Average calculated from the grades achieved in the courses studied in, or transferred to, the program;

- the grade achieved by the student in the courses [ENG4111](#) Research Project Part 1 and [ENG4112](#) Research project Part 2 (unless the student is exempted from these courses).

The minimum levels of achievement normally required for each class of honours are shown in the following table. To be assured of achieving a particular class of honours students must have achieved the specified grade in the research project courses and the minimum GPA requirements for all of the courses studied, for the last 16 courses studied, or for the last eight courses studied.

Class of Honours	GPA Calculated from the Grades Achieved in:			Minimum Grade Achieved in Research Project Courses
	All Courses Studied in the Program	The Last 16 Courses Studied ^{*#}	The Last Eight Courses Studied ^{*#}	
First Class Honours	6.0	6.2	6.5	A
Second Class Honours - Division A	5.5	5.7	5.9	B
Second Class Honours - Division B	5.0	5.1	5.3	C
Minimum number of courses required	20	16	8	

Footnotes

* The results from courses [ENG4111](#) and [ENG4112](#) must be included (unless the student is exempted from these courses).

The best results in a semester are to be used when not all of the results from a semester are required.

Other information

To be eligible to graduate from the Bachelor of Engineering, students must obtain an aggregate of at least 60 days of suitable practical experience during their program. This experience may be in an engineering office