

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

The Computer major of Bachelor of Science is accredited at professional level by the Australian Computer Society and through the Seoul Accord is recognised in other countries.

Program aims

This program provides students with the opportunity to become qualified Engineers with a strong background in one branch of Science. The program offers students a high level of flexibility as they are able to select one of the nine Engineering majors and combine it with one of six Science majors.

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.

Admission requirements

Applicants shall normally:

- 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 the

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 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 Faculty of Sciences ([Bachelor of Science](#)) and Faculty of Engineering and Surveying ([Bachelor of Engineering](#)) parts 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](#)

Electrical and Electronic Engineering*
Environmental Engineering
Instrumentation and Control Engineering
Mechanical Engineering*
Mechatronic Engineering*
Power Engineering

The courses in each of the Engineering majors are listed in the [Bachelor of Engineering](#) entry in the Faculty of Engineering and Surveying section of this Handbook. Students enrolled in the Bachelor of Engineering and Bachelor of Science program study only 18 of the 19 courses listed in an Engineering major. An Elective course is to be deleted from the list of courses in each major.

To satisfy the requirements for the award students completing one of the majors marked with an asterisk (*) must complete a course offered by the Faculty of Sciences as one of their Electives. The course [CSC1402 Foundation Computing](#) should not be studied as it will not satisfy this requirement.

Elective courses may be selected from the courses offered by the Faculty of Engineering and Surveying. Students should refer to the list of recommended Elective courses for their Engineering major.

Science majors

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 entry in the Faculty of Sciences section of this Handbook.

Students who select the Mathematics major need to replace [MAT2100 Algebra and Calculus I](#) in the Bachelor of Science program.

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.

				Minimum Grade Achieved

The acceptability or otherwise of employment experience, and the period of that type of experience that may be credited towards the 60 days, will be determined by the Examiner of [ENG4909 Work Experience - Professional](#).