

Bachelor of Engineering (Honours) Bachelor of Science (BEHS) - BEng(Hons) BSc

QTAC code (Australian and New Zealand applicants): Toowoomba campus: 907361; External: 907365; Springfield campus: 927361

CRICOS code (International applicants): 079518F

	On-campus#	External
Start:	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)
Campus:	Springfield, 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 Science ; Bachelor of Engineering (Honours)	

Notes:

See note on part-time study below within the Program Structure section.

Footnotes

None of the Bachelor of Science majors are available at the Springfield campus. However, Springfield students may be able to take a Science major externally. Accordingly, the Springfield offering is not suitable for International on-campus students.

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: study@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

Professional accreditation

A graduate of this program is eligible to apply for membership of Engineers Australia as a graduate Engineer. After further professional development, a graduate member with a Bachelor of Engineering (Honours) may apply for chartered status as a Professional Engineer and, when granted, may use the post-nominal MIEAust CPEng.

The Bachelor of Engineering (Honours) program is accredited by Engineers Australia and, through an agreement reached between the professional engineering bodies of other countries (the Washington Accord), is also recognised in the United Kingdom, the United States of America, Canada, Ireland, Hong Kong, New Zealand and South Africa.

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 from a wide range of Engineering majors and combine it with one of the numerous Science majors.

Program objectives

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

Australian Qualifications Framework

The Australian Qualifications Framework (AQF) is a single national, comprehensive system of qualifications offered by higher education institutions (including universities), vocational education and training institutions and secondary schools. Each AQF qualification has a set of descriptors which define the type and complexity of knowledge, skills and application of knowledge and skills that a graduate who has been awarded that qualification has attained, and the typical volume of learning associated with that qualification type.

This program is at AQF Qualification Level 08. Graduates at this level will have advanced knowledge and skills for professional or highly skilled work and/or further learning.

The full set of levels criteria and qualification type descriptors can be found by visiting www.aqf.edu.au.

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 achieved a minimum Australian Tertiary Admission Rank (ATAR) of **74.15**, or equivalent qualification.[^]
- Subject Pre-requisites: English (Units 3 & 4, C) and Mathematical Methods (Units 3 & 4, C) or equivalent.
- English Language Proficiency requirements for Category 2.

Applicants are advised to also note the following:

- Recommended Prior Study (Engineering): Physics (Units 3 & 4, C) or equivalent.
- Recommended Prior Study (Science): Applicants should refer to the [Bachelor of Science](#) for the recommended prior study for their selected Bachelor of Science major.

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.

[^] These are determined by the University for specific programs each Semester. The 2021 ATAR and tertiary entrance ranks are based on agreed QTAC schedules which assess formal study at Year 12 or [equivalent level](#), tertiary, preparatory, professional or vocational qualifications or work experience, as detailed in the QTAC Assessment of Qualifications Manual and QTAC Assessor Guidelines.

Adjustment factors may help you get into the program of your choice by increasing your entrance rank. The additional points don't apply to all applicants or all programs. Please read the information about USQ's [Adjustment Factors](#) carefully to find out what you may be eligible for.

Program fees

Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of a students' higher education and students pay a [student contribution amount](#), which varies depending on

the courses undertaken. Students are able to calculate the fees for [Finder](#).

Commonwealth Supported students may be eligible to defer their [HECS-HELP](#).

Domestic full fee paying place

Domestic full fee paying places are funded entirely through the full fee depending on the courses that are taken. Students are able to calculate fees via the [Course Fee Finder](#).

Domestic full fee paying students may be eligible to defer their fees via [HELP](#) provided they meet the residency and citizenship requirements.

Australian citizens, Permanent Humanitarian Visa holders, Permanent Resident citizens who will be resident outside Australia for the duration of their study are not eligible for [FEE-Help](#).

International full fee paying place

International students pay full fees. Full fees vary depending on the course and whether they are studied on-campus, via distance education/online. Students are able to calculate fees via the [Course Fee Finder](#).

Program structure

The program involves five years of full-time study.

Students may apply for admission to study part-time or externally, however, it is not possible to complete this program within the maximum duration of ten years. Students are required to complete a minimum of four units of study per year. To complete the program within the maximum duration of eight years, students will need to complete a minimum of 120 units of study.

Mathematics ⁺
Physical Sciences
Statistics ⁺
Wine Science

Footnotes

[^] Students undertaking this Science major cannot complete the following Engineering major within 40 units: Mechanical Engineering.

⁺ Students who select this major cannot undertake CSC1402 as an approved course.

Core courses

The eight courses comprising each of the Science majors are listed in the [Bachelor of Science](#) section of this Handbook.

Students enrolled in the Bachelor of Engineering (Honours) Bachelor of Science program study all of the Core courses listed in a Science major. Students must also complete the following Core courses for each major; these should be completed early in the program, as noted in the Recommended Enrolment Pattern for the relevant Science major. Students completing [ENM1600 Engineering Mathematics](#) and [ENM2600 Advanced Engineering Mathematics](#) should additionally refer to the Recommended Enrolment Pattern for their Engineering major.

Science Major	Core courses to be studied	Reduction in required number of Approved Courses in Engineering major
Biology	<ul style="list-style-type: none"> • ENM1600 Engineering Mathematics • ENM2600 Advanced Engineering Mathematics • CMS1100 Communicating in the Sciences • SCI1001 Succeeding in Science • STA1003 Fundamental Statistics 	3
Computing	<ul style="list-style-type: none"> • ENM1600 Engineering Mathematics • ENM2600 Advanced Engineering Mathematics • CMS1000 Communication and Scholarship • CSC1401 Foundation Programming • STA1003 Fundamental Statistics • MAT1101 Discrete Mathematics for Computing 	4

Environment and Sustainability	<ul style="list-style-type: none"> • ENM1600 Engineering Mathematics • ENM2600 Advanced Engineering Mathematics • CMS1100 Communicating in the Sciences • SCI1001 Succeeding in Science • STA1003 Fundamental Statistics 	3
Food Science	<ul style="list-style-type: none"> • ENM1600 Engineering Mathematics • ENM2600 Advanced Engineering Mathematics • CMS1100 Communicating in the Sciences • SCI1001 Succeeding in Science • STA1003 Fundamental Statistics 	3
Human Physiology	<ul style="list-style-type: none"> • ENM1600 Engineering Mathematics • ENM2600 Advanced Engineering Mathematics • CMS1100 Communicating in the Sciences • SCI1001 Succeeding in Science • STA1003 Fundamental Statistics 	3
Mathematics	<ul style="list-style-type: none"> • CMS1100 Communicating in the Sciences • CSC2410 Computational Thinking with Python • STA1003 Fundamental Statistics • SCI1001 Succeeding in Science • Students study MAT1102 Algebra and Calculus I and MAT2100 Algebra and Calculus II as part of this Science Major, therefore do not study the equivalent courses ENM1600 Engineering Mathematics nor ENM2600 Advanced Engineering Mathematics. 	2

Physical Sciences	<ul style="list-style-type: none"> • CMS1100 Communicating in the Sciences • CSC2410 Computational Thinking with Python • STA1003 Fundamental Statistics • SCI1001 Succeeding in Science • Students study MAT1102 Algebra and Calculus I and MAT2100 Algebra and Calculus II as part of this Science Major, therefore do not study the equivalent courses ENM1600 Engineering Mathematics nor ENM2600 Advanced Engineering Mathematics. 	3
Plant Agricultural Science	<ul style="list-style-type: none"> • ENM1600 Engineering Mathematics • ENM2600 Advanced Engineering Mathematics • CMS1100 Communicating in the Sciences • SCI1001 Succeeding in Science • STA1003 Fundamental Statistics 	3
Statistics	<ul style="list-style-type: none"> • CMS1100 Communicating in the Sciences • CSC2410 Computational Thinking with Python • STA1003 Fundamental Statistics • SCI1001 Succeeding in Science • Students study MAT1102 Algebra and Calculus I and MAT2100 Algebra and Calculus II as part of this Science Major, therefore do not study the equivalent courses ENM1600 Engineering Mathematics nor ENM2600 Advanced Engineering Mathematics. 	2

They are a compulsory part of the program and do not attract a student contribution charge for Australian residents or a tuition fee for international students. The recommended enrolment schedule for Practice courses is shown in the Recommended Enrolment Pattern for the program in this Handbook.

External students must attend a number of residential schools during their program to obtain experience in practical and professional activities appropriate to the program. The residential schools are included in Practice courses which are conducted in Semester 3 or during the recess periods. The dates for each residential school Practice course are shown in the [Residential School schedule](#) in this Handbook and external students should ensure they are able to attend the residential school prior to enrolling in a Practice course. Personal protective equipment is compulsory in many engineering, construction and spatial science laboratories, students should confirm the requirements before attending residential schools for Practice courses.

Students who enrol in on-campus mode for Practice courses normally undertake a series of weekly activities and/or attend a compulsory residential school.

[ENG3902 Professional Practice 1](#) and [ENG4110 Engineering Research Methodology](#) are to be studied in the student's penultimate year. Upon completion of [ENG3902 Professional Practice 1](#) and [ENG4110 Engineering Research Methodology](#), students must study [ENG4111 Research Project Part 1](#), [ENG4112 Research Project Part 2](#) and [ENG4903 Professional Practice 2](#)

Students are able to enrol in any offered mode of a course (on-campus, external or online), re