

Bachelor of Engineering Science and Bachelor of Vocational Education & Training (BNBV) - BENS BVET

QTAC code (Australian and New Zealand applicants): External: 907705; Toowoomba campus: 907702

This program is offered only to continuing students. No new admissions will be accepted. Students who are interested in this area of study should [contact us](#).

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 the Queensland Senior Secondary School subject: English and Mathematics B; or

The combined program consists of 19 core, 13 major study and six practical courses. Students enrolled in the program may undertake a professional specialisation in one of the following major discipline areas:

- Civil Engineering
- Electrical and Electronic Engineering; or
- Mechanical Engineering

To satisfy the requirements of the program students must complete all the Academic and Practice courses in the following tables that show the recommended enrolment patterns for on-campus and external students. Students following a non-standard enrolment pattern should consult the [course specification](#) to ascertain if a course is offered in another term.

Required time limits

Full-time students have a maximum of six years to complete this program. Part-time students have a maximum of 10 years to complete this program. A pro-rata adjustment of the maximum time period will apply for those students who transfer from one mode of study to another. A pro-rata reduction in the maximum time period will apply to students who are admitted to a program with advanced standing.

Practical experience

To be eligible to graduate from the Bachelor of Engineering Science, students must obtain an aggregate of at least 45 days of suitable Engineering work experience during their program. This experience may be in an engineering office or laboratory where the student would be working principally with professional engineers and engineering associates. It may, however, be preferable for students to spend some time in field or factory activities to gain insight into industrial practice and to see what is involved in converting designs into finished products. Students are required to enrol in [ENG3909 Work Experience - Technologist](#) in the latter part of their program and keep a record of appropriate experience as outlined in the Course Specification. The work experience is to be endorsed by an appropriate person in the organisation providing the experience and submitted to the examiner. The student must meet all costs associated with the acquisition of practical experience to satisfy this requirement. The record of work experience must be made available for perusal by the Faculty of Health, Engineering and Sciences upon request. The acceptability or otherwise of employment experience, and the period of that type of experience that may be credited towards the 45 days, will be determined by the Examiner of [ENG3909 Work Experience - Technologist](#).

Credit or exemptions for [ENG3909 Work Experience - Technologist](#) will not normally be considered.

To be eligible to graduate from the Bachelor of Vocational Education & Training students must obtain an aggregate of 100 hours of professional Vocational Education & Training experience. Professional experience placements may be scheduled outside usual University teaching weeks. Travel to locations away from the areas local to the student's home campus may be necessary to complete the professional experience requirements. The professional experience components of the Bachelor of Vocational Education and Training program are all tied to four identified courses. In order to undertake courses to which professional experience placements are attached at any stage in the program it is a requirement that students will have satisfactorily completed all Vocational Education & Training professional experience courses in previous years in the program enrolment pattern. Students may complete their professional experience in approved placements. As students are studying wholly at a distance from USQ campus, special requirements will need to be met in relation to completion of professional experience, including submission of tw

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. Specialist software is required for some courses.

Residential schools

The attendance requirement of residential schools within this degree is indicated by the following letters: V = Voluntary; O = Optional; C = Compulsory; R = Recommended; HR = Highly Recommended; M = Mandatory. To find out more about [residential schools](#), visit the [Residential School Schedule](#) to view specific dates for your degree, or visit the [Policy and Procedure Library](#).

Students are required to undertake practical and professional activities relevant to their program through enrolment in a series of **Practice courses** in the program. Practice courses are zero unit courses that may be undertaken in either on-campus or external mode and the final grades available are Pass (P)/Fail (F) only. 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.

Articulation

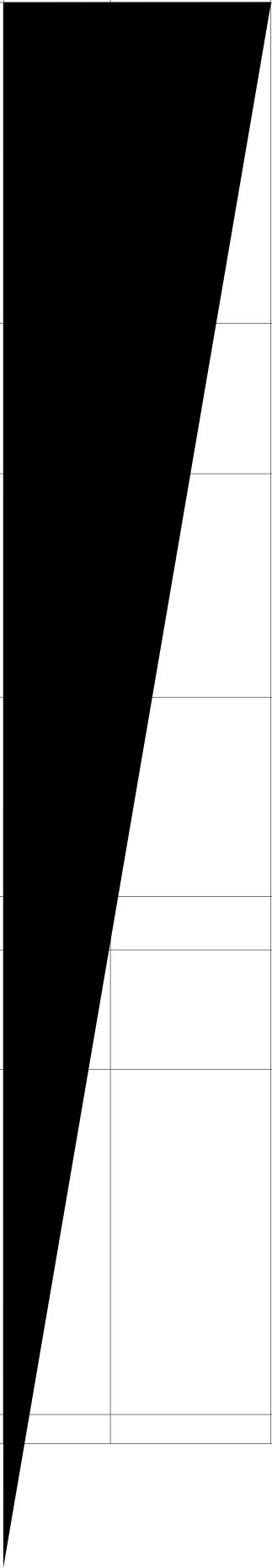
Students can articulate into the [Bachelor of Engineering \(Honours\)](#) and [Master of Engineering Science](#) programs.

Exit points

Students who, for whatever reason, are unable to complete this program and who satisfy all of the requirements of either the [Bachelor of Engineering Science](#), [Associate Degree of Engineering](#) or the [Dipi619 Tm\(enr9E0 g1 l5tctice course](#)

for our Toowoomba campus. Students following a non-standard enrolment pattern should consult the

	Year						Sem	Total
	2023-24		2024-25		2025-26			
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Mechanical Engineering Major recommended enrolment pattern

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

Major study: Mechanical Engineering (Major Study Code:16751)									
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (ONL)				
	Year	Sem	Year	Sem	Year	Sem			
							one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS		
ELE1801 Electrical Technology	2	2	3	2,3			Pre-requisite: EN G1500 or MAT1500 or ENM1500 or ENM1600 or Students must be enrolled in one of the following Programs: MEPR or GCEN		
MEC2106 Introduction to Thermofluids	2	2	3	2			Pre-requisite: CIV1500 or CIV1501 or Students must be enrolled in one of the following Programs: BENH or BEBC or BEHS or GCEN or MENS		
EDC1400 Thinking and Acting like a Teacher 2	2	2	4			2	Pre-requisite: EPP1100 or EDC1300 and Students must be enrolled in one of the following Programs: BEDU (Primary) or BEDU (Primary + Special Education) or BEDU (Special Education) or BEDU (HPE Primary) or BEDU (SHPE Primary)	25 hours professional experience	
EDC2300 Assessment Practices for Secondary	2	2	4			2	Pre-requisite: ESP1200 or EDC1400 and Students must be enrolled in the following Program: BEDU		
MEC2101 Thermodynamics	3	1	4	1					
MEC2405 Machine Dynamics	3	1	5	1			Pre-requisite: CIV1501 or Students must be enrolled in the following Program: GCEN		
EDC2400 Educating Learners with Special Needs Across Contexts	3	1	6			1			
EDC3100 ICT and Pedagogy	3	1	6			1		25 hours professional experience	
MEC2304 Solid Modelling	3	2	5	2					
MEC2301 Design of Machine Elements	3	2	5	2			Pre-requisite: MEC2402 or Students must be enrolled in		

