

## Bachelor of Engineering (Honours) Bachelor of Business and Commerce (BEBC) - BEng(Hons) BusCom

QTAC code (Australian and New Zealand applicants): Springfield campus: 927451; External: 907455;  
 Toowoomba campus: 907451

CRICOS code (International applicants): 093152C

	On-campus#	External
<b>Semester intake:</b>	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)
<b>Campus:</b>	Springfield, Toowoomba	-
<b>Fees:</b>	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
<b>Standard duration:</b>	5 years full-time, 8 years part-time or external	
<b>Program articulation:</b>	From: <a href="#">Associate Degree of Engineering</a> ; <a href="#">Bachelor of Engineering Science</a> ; <a href="#">Bachelor of Engineering (Honours)</a>	

### Notes:

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

### Footnotes

# Not all of the Bachelor of Engineering (Honours) majors are available at USQ Springfield. Not all of the Bachelor of Business and Commerce majors are fully available at all campuses.

## Contact us

Future Australian and New Zealand students	Future International students	Current students
<a href="#">Ask a question</a> Freecall (within Australia): 1800 269 500 Phone (from outside Australia): +61 7 4631 5315 Email: <a href="mailto:study@usq.edu.au">study@usq.edu.au</a>	<a href="#">Ask a question</a> Phone: +61 7 4631 5543 Email: <a href="mailto:international@usq.edu.au">international@usq.edu.au</a>	<a href="#">Ask a question</a> Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email <a href="mailto:usq.support@usq.edu.au">usq.support@usq.edu.au</a>

## 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.

The Marketing major is accredited by the [Australian Marketing Institute \(AMI\)](#) and students are eligible for credit towards becoming a Certified Practising Marketer (CPM) upon completion.

## Program aims

This combination of an Engineering program with a program in Business or Commerce provides students with the opportunity to become qualified Engineers with a strong background in business or commerce principles and practice. There is an increasing need for engineering graduates to have business or commerce qualifications early in their career as they are often required to manage complex projects with both tight schedules and budgets. In some sectors of the industry a business or commerce qualification can be one of the criteria for promotion. Many engineers have completed a [Master of Business Administration](#) to satisfy this requirement. This program enables students to obtain qualifications in both disciplines at the same time.

The program offers students a high level of flexibility as they are able to choose wide ranging combinations of an engineering major and a business or commerce major that best suits their career aspirations.

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

## Program objectives

Graduates of the Bachelor of Engineering (Honours) Bachelor of Business and Commerce program will have met the separate objectives of the [Bachelor of Engineering \(Honours\)](#) and the [Bachelor of Business and Commerce](#) 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](http://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 Overall Position (OP) **11**, tertiary entrance rank **77** or equivalent qualification.<sup>^</sup>
- Subject Pre-requisites: English (4,SA) and Mathematics B (4,SA) or equivalent.
- English Language Proficiency requirements for Category 2.

Applicants are advised to also address the following:

- Recommended Prior Study: Physics (4,SA) or equivalent.

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 2019 OP 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.

Special admissions may help you get into the program of your choice by increasing your Selection Rank. The additional points don't apply to all applicants or all programs. Please read the information about USQ's [Special Admissions](#) 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 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. Students 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. Students 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.

Students may apply for admission to study part-time or externally, however applicants should ensure they are able to complete this program within the maximum duration of ten years. To achieve this, students will need to complete a minimum of four units of study per year. To complete the program part-time within the standard duration of eight years, students will need to complete a minimum of five units of study per year.

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 Business and Commerce](#) and [Bachelor of Engineering \(Honours\)](#) sections of this Handbook.

The Bachelor of Engineering (Honours) Bachelor of Business and Commerce is a 40-unit program consisting of Academic courses and Practice courses.

**Academic** courses are normally one-unit courses that 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 components of the program are shown in the following table:

Program Component	Academic Courses		Practice Courses	
	Number of Courses	Units	Number of Courses	Units
Core Studies	9	9	4	0
Engineering Major Study	15 to 17 depending on the Major	15 to 17 depending on the Major	5	0
Engineering Major approved courses	0 to 2 depending on the Major	0 to 2 depending on the Major	0	0
Business or Commerce Major Study	14	14	0	0
Total	40	40	9	0

## Required time limits

Students have a maximum of 10 years to complete this program.

## Core courses

The courses that comprise the Engineering core studies are shown in the following table:

Course	Units
<a href="#">ENM1600 Engineering Mathematics</a>	1
<a href="#">ENM2600 Advanced Engineering Mathematics</a>	1
<a href="#">ENG1002 Introduction to Engineering and Built Environment Applications</a>	1
<a href="#">ENG1100 Introduction to Engineering Design</a>	1
<a href="#">ENG1004 Engineering Problem Solving Principles</a>	1
<a href="#">ENG3104 Engineering Simulations and Computations</a>	1
<a href="#">ENG4110 Engineering Research Methodology</a>	1
<a href="#">ENG4111 Research Project Part 1</a>	1
<a href="#">ENG4112 Research Project Part 2</a>	1
<b>Practice Courses - Engineering</b>	
<a href="#">ENG1901 Engineering Practice 1</a>	0
<a href="#">ENG3902 Professional Practice 1</a>	0
<a href="#">ENG4903 Professional Practice 2</a>	0
<a href="#">ENG4909 Work Experience - Professional</a>	0

When compared to the Core Studies program in the [Bachelor of Engineering \(Honours\)](#) program the following changes have been made:

- the following courses have been deleted from the program: [ENG2002 Technology, Sustainability and Society](#), and [ENG3003 Engineering Management](#)

## Major studies

### Engineering majors

An Engineering major study provides students with knowledge and skills in a particular engineering discipline. Students must select one of the following majors as their Engineering major.

Engineering major studies:
Agricultural Engineering
Civil Engineering

Computer Systems Engineering
Electrical and Electronic Engineering
Environmental Engineering
Instrumentation Control and Automation Engineering
Power Engineering

The courses in each of the Engineering majors are listed in the [Bachelor of Engineering \(Honours\)](#) section of this Handbook. Students enrolled in the Bachelor of Engineering (Honours) Bachelor of Business and Commerce program study all of the Core courses listed in an Engineering major.

Of the courses listed for each major, the courses that are not required are:

Engineering Major	Courses not to be studied from the Major
Agricultural Engineering	4 Approved courses
Civil Engineering	4 Approved courses
Computer Systems Engineering	4 Approved courses
Electrical and Electronic Engineering	4 Approved courses
Environmental Engineering	4 Approved courses
Instrumentation Control and Automation Engineering	4 Approved courses
Power Engineering	4 Approved courses

Students should select any remaining approved courses from the appropriate list for their engineering major.

### Business and Commerce majors

Students must select a business and commerce major from one of the following eight-unit majors:

Business and Commerce major studies:
Accounting <sup>^</sup>
Aviation Management and Safety <sup>*</sup>
Business Administration
Business Economics
Business Law
Finance
Human Resource Management
Information Technology Management
International Business
Management and Leadership
Marketing
Sustainable Business

#### Footnotes

<sup>^</sup> For accreditation details of these majors, applicants are asked to refer to the [Bachelor of Business and Commerce](#) section of this Handbook.

<sup>\*</sup> The eight courses in this Business and Commerce major are only available Online or On-campus in Springfield.

The eight courses that comprise each of the Business and Commerce majors are listed in the relevant sections of this Handbook. In addition to those courses, the following courses must be studied for each major:

<b>Business and Commerce Major</b>	<b>Core courses to be studied</b>
Accounting	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• ECO1000 Economics</li> <li>• FIN1101 Introduction to Corporate Finance</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• STA2300 Data Analysis</li> </ul>
Aviation Management and Safety	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• MGT1000 Organisational Behaviour</li> <li>• ECO1000 Economics</li> <li>• FIN1101 Introduction to Corporate Finance</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• STA2300 Data Analysis</li> </ul>
Business Administration	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• MGT1000 Organisational Behaviour</li> <li>• MKT1001 Introduction to Marketing</li> <li>• FIN1101 Introduction to Corporate Finance</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• CIS1000 Information Systems Concepts</li> </ul>
Business Economics	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• ECO1000 Economics</li> <li>• FIN1101 Introduction to Corporate Finance</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• STA2300 Data Analysis</li> </ul>
Business Law	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• ECO1000 Economics</li> <li>• FIN1101 Introduction to Corporate Finance</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• MGT1000 Organisational Behaviour</li> </ul>
Finance	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• ECO1000 Economics</li> <li>• FIN1101 Introduction to Corporate Finance</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• STA2300 Data Analysis</li> </ul>

Human Resource Management	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• MGT1000 Organisational Behaviour</li> <li>• MKT1001 Introduction to Marketing</li> <li>• STA2300 Data Analysis</li> </ul>
Information Technology Management	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• MGT1000 Organisational Behaviour</li> <li>• MKT1001 Introduction to Marketing</li> <li>• STA2300 Data Analysis</li> </ul>
International Business	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• ECO1000 Economics</li> <li>• FIN1101 Introduction to Corporate Finance</li> <li>• MGT1000 Organisational Behaviour</li> <li>• MKT1001 Introduction to Marketing</li> </ul>
Management and Leadership	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• ECO1000 Economics</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• MGT1000 Organisational Behaviour</li> <li>• MKT1001 Introduction to Marketing</li> </ul>
Marketing	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• ECO1000 Economics</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• MGT1000 Organisational Behaviour</li> <li>• MKT1001 Introduction to Marketing</li> </ul>
Sustainable Business	<ul style="list-style-type: none"> <li>• ACC1101 Accounting for Decision-Making</li> <li>• CIS1000 Information Systems Concepts</li> <li>• ECO1000 Economics</li> <li>• FIN1101 Introduction to Corporate Finance</li> <li>• LAW1500 Introduction to Business and Company Law</li> <li>• MGT1000 Organisational Behaviour</li> <li>• MKT1001 Introduction to Marketing</li> <li>• STA2300 Data Analysis</li> </ul> <p>Students do not study two approved courses from the Bachelor of Business and Commerce (BBCM) program.</p>

## Practical experience

To be eligible to graduate from the Bachelor of Engineering (Honours), students must obtain an aggregate of at least 60 days of suitable 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 [ENG4909 Work Experience - Professional](#) in the latter part of their program and keep a record of appropriate experience as specified 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 work 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 60 days, will be determined by the Examiner of [ENG4909 Work Experience - Professional](#).

## 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. 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. 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.

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

## Exit points

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

## Credit

Exemptions/credit will be assessed based on the [USQ Credit and Exemption Procedure](#).

## Work Experience

Work and industrial experience that has not been formally assessed, does not normally qualify for course credit in the Bachelor of Engineering (Honours) Bachelor of Business and Commerce program. Existing work experience may be used to satisfy the practical/work experience requirements when completing the [ENG4909 Work Experience - Professional](#) practice course.

## Course transfers

Students who are enrolled in either the [Bachelor of Engineering \(Honours\)](#) program or the [Bachelor of Business and Commerce](#) program may transfer to the program with advanced standing. 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 level of honours awarded will be determined based on the USQ procedure. Please refer to the [Class of Honours Standard Schedule](#).

## Recommended enrolment patterns

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

Due to the large number of combinations of engineering and business and commerce majors available, separate recommended enrolment pattern tables are not published in this Handbook.

Commencing on-campus students should enrol in the standard first year courses in the engineering major that they have selected. Towards the end of their first year they should consult the Faculty of Health, Engineering and Sciences for advice on the enrolment pattern to be followed in later years of the program.