Bachelor of Engineering and Bachelor of Business (BEBB) - BEng BBus

QTAC code (Australian and New Zealand applicants): Toowoomba campus: 907342

CRICOS code (International applicants): 030308J

	On-campus	Distance education		
Semester intake:	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)		
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 within Admission requirements.

Contact us

Future Australian and New Zealand students	Future International students	Current students
Ask a question	Ask a question	Ask a question
Freecall (within Australia): 1800	Phone: +61 7 4631 5543	Freecall (within Australia): 1800
269 500	Email: international@usq.edu.au	007 252
Phone (from outside Australia): +61	_	Phone (from outside Australia): +61
7 4631 5315		7 4631 2285
Email: studyeng@usq.edu.au		Email usq.support@usq.edu.au

Program focus

This degree program will provide students with the knowledge and skills to become a professional engineer with a strong background in business principles and practice. Students can combine studies in one of the Bachelor of Engineering majors with one eight-unit Bachelor of Business major. The award may be conferred with Honours to high achieving students.

Career opportunities

Professional engineer and manager, management positions within the public or private sectors specialising in an engineering discipline.

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 may apply for chartered status as a Professional Engineer and, when granted, may use the post-nominal MIEAust CPEng.

The Bachelor of Engineering 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 Unites States of America, Canada, Ireland, Hong Kong, New Zealand and South Africa.

Program aims

This combination of an Engineering program with a program in Business provides students with the opportunity to become qualified Engineers with a strong background in business principles and practice. There is an increasing need for engineering graduates to have business 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 qualification can be one of the criteria for promotion. Many engineers have completed a Master of

Program fees

Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of your higher education and you as a student pay a student contribution amount, which varies depending on the courses undertaken. You 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. 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.

Students may apply for admission to study part-time or by distance education once they have completed 16 units of the Bachelor of Engineering program or if they are eligible for advanced standing of 16 or more units. This ensures that they are able to complete the program in the maximum duration of eight years.

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.

The combined Bachelor of Engineering and Bachelor of Business degree 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 offered by the Faculty of Engineering and Surveying 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:

Program Component	Number of Academic Courses	Number of Practice Courses	
Core Studies	16	4	
Engineering Major Study	16	3-8 depending upon the major	
Business Major Study	8	0	
Total Courses	40	6 - 8	
Total Units	40	0	

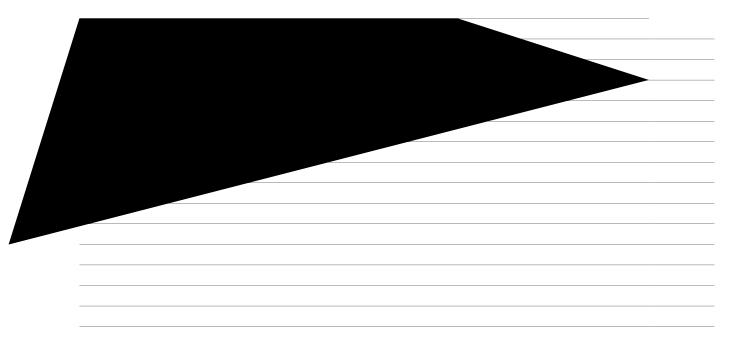
Required time limits

Full-time students have a maximum of seven years to complete this program. Part-time or distance education students have a maximum of eight 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.

Core courses

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



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 eight majors as their Engineering major.

Engineering major studies:
Agricultural Engineering
Civil Engineering
Computer Systems Engineering
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 Business program only study 16 of the 19 courses listed in an Engineering major.

The three courses that are not studied in each major are listed in the following table:

Engineering Major	Courses to be Deleted from the Major		
Agricultural Engineering	2 Electives and either AGR3303 Agricultural Materials and Post-Harvest		
	Technologies OR AGR3305 Precision and Smart Technologies in Agriculture		
Civil Engineering	3 Electives		
Computer Systems	1 Elective and ENG4004 Engineering Project and Operations Management and		
Engineering	ELE2504 Electronic Design and Analysis		
Electrical and Electronic	2 Electives and ENG4004 Engineering Project and Operations Management		
Engineering			
Environmental Engineering 3 Electives			
Instrumentation and	1 Elective and the courses ENG4004 Engineering Project and Operations		
Control Engineering	Management and ELE2504 Electronic Design and Analysis		
Mechanical Engineering	1 Elective and ENG4004 Engineering Project and Operations Management and		
	MEC3403 Dynamics II		
Mechatronic Engineering	1 Elective and ENG4004 Engineering Project and Operations Management and		
	ELE2504 Electronic Design and Analysis		
Power Engineering	3 Electives		

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

Business majors

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

Business major studies:	
Human Resource—Management	
Information Technology Management	
International Business	
Management and Leadership	

Marketing
Supply Chain Management
Sustainable Business
Sustainable Economics and Policy
Tourism Management

Note: With the permission of the Dean of the Faculty of Engineering and Surveying students may select an alternative major from the Bachelor of Business or the Bachelor of Commerce. The eight courses that comprise each of the business majors are listed in the relevant sections of this Handbook.

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 Business 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 who are enrolled in either the Bachelor of Engineering program or the Bachelor of Business program may transfer to the program with advanced standing. If they have completed up to one year of one of those programs they w

Consult the Handbook on the Web at http://www.usq.edu.au/handbook/current for any updates that may occur during the year. Bachelor of Engineering and Bachelor of Business (BEBB) - BEng BBus (2012)

Second Class Honours - Division A	5.5	5.7	5.9	В
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 and Bachelor of Business, 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 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 practical experience to satisfy this requirement. The record of work experience must be made available for perusal by the Head of Discipline 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.

Recommended enrolment patterns

Due to the large number of combinations of engineering and business majors available separate recommended enrolment pattern tables are not printed 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 their Program Coordinator for advice on the enrolment pattern to be followed in later years of the program.