

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

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

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 Engineering core studies are shown in the following table:

Course	Units
ENM1600 Engineering Mathematics	1
ENM2600 Advanced Engineering Mathematics	1
ENG1002 Introduction to Engineering and Spatial Science Applications	1
ENG1100 Introduction to Engineering Design	1
ENG1004 Engineering Problem Solving Principles	1
ENG3104 Engineering Simulations and Computations	1
ENG4110 Engineering Research Methodology	1
ENG4111 Research Project Part 1	1
ENG4112 Research Project Part 2	1
Practice Courses - Engineering	
ENG1901 Engineering Practice 1	0
ENG3902 Professional Practice 1	0
ENG4903 Professional Practice 2	0
ENG4909 Work Experience - Professional	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

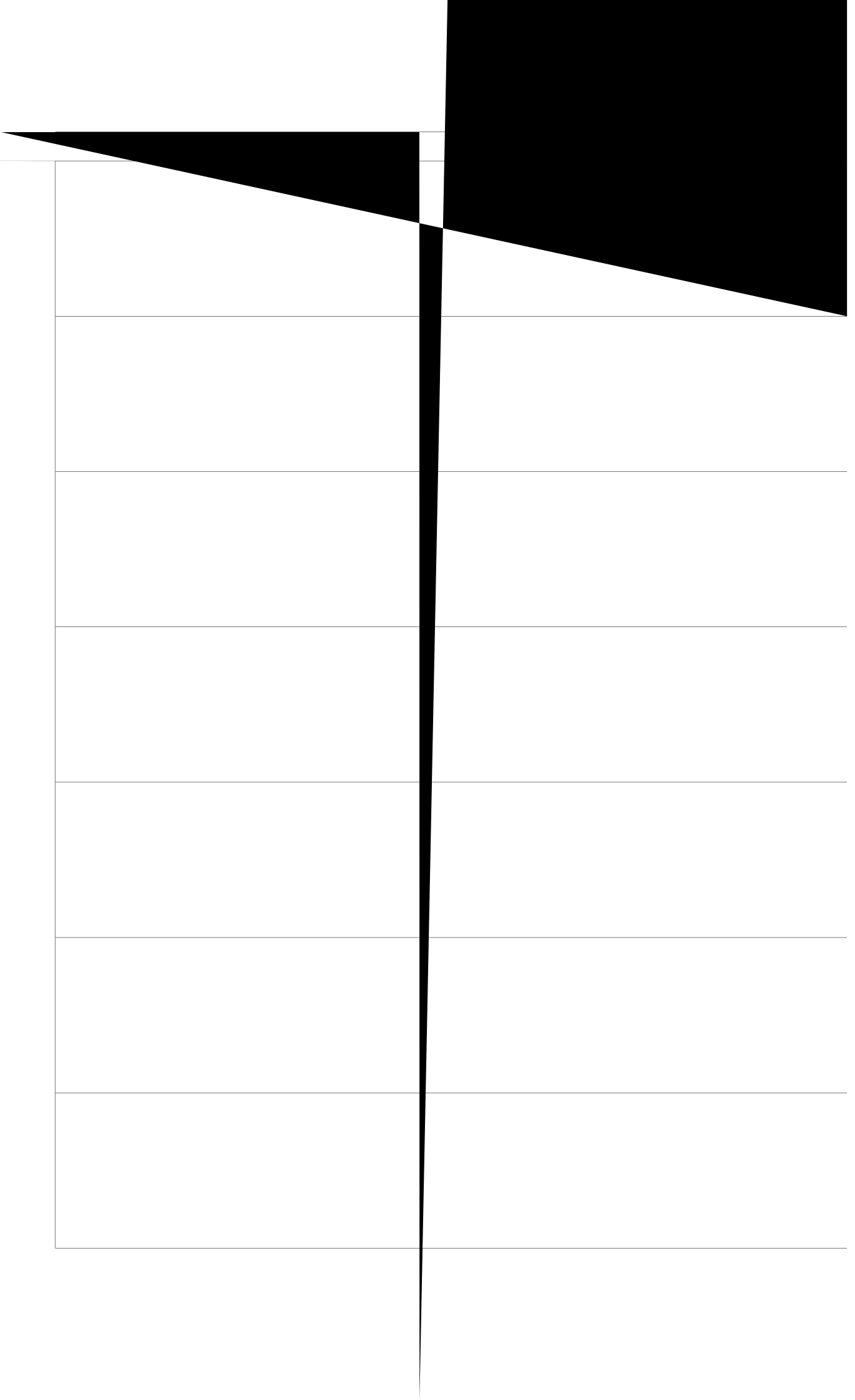
An Engineering major study provides students with knowledge and skills in a particular engineering discipline. Students must select one of the following majors as their Engineering major.

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



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.

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.