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In addition, students obtain knowledge of the natural, legal, commercial, industrial and social environments in which they will function as professionals. The program instils in students the need for continuing professional development and gives them the ability to adapt to change.

The program is designed to identify, and award honours to, students who have the capacity to undertake study at an advanced level and to make an original contribution to the fundamental science and practice of spatial science. The award of honours will be determined by academic performance and is normally based on a student's grade point average (GPA).

## **Program objectives**

A student who successfully completes the Bachelor of Spatial Science should be able to demonstrate:

- a broad knowledge of basic scientific and technical skills
- a high level of computer literacy skills appropriate to their field of study
- a high level of written and oral communication skills
- a capacity for analysis, evaluation and synthesis
- an understanding of, and ability to undertake, the processes required to collect, store, and manipulate a variety of spatial data
- a capacity to adapt to change and to apply innovation
- an understanding of the natural, social, professional, industrial and technical environments in which they will practice
- a knowledge of professional journals and other information sources related to the spatial science industry, the skills required to access information from those sources, and an aptitude to undertake further learning and study
- an ability to undertake applied research in a field of the spatial science discipline
- a knowledge of the financial and management principles and practices that are used to manage a professional office
- a knowledge of surveying, spatial information systems or urban and regional planning of sufficient depth to gain employment, certification and, where appropriate, registration as a Professional Surveyor, Spatial Scientist or Planner.

## **Admission requirements**

**Applicants shall normally:**

- Geographic Information Systems and Surveying majors: have studied four semester units and achieved an exit assessment of 'Sound Achievement' or better in each of the following Queensland Senior Secondary School subjects: English and Mathematics B. It is recommended that applicants should also have satisfactorily completed the subject: Physics
- Urban and Regional Planning Major: have studied four semester units and achieved an exit assessment of 'Sound Achievement' or better in each of the follo

If you do not meet the English language requirements you may apply to study a University-approved [English language program](#). On successful completion of the English language program, Applicants may be admitted to an Award Program.

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## Practical experience

Practical experience is desirable and encouraged but is not required for the completion of the Bachelor of Spatial Science program. Students are encouraged to obtain practical experience during vacation periods.

## 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.

## Residential schools

External students are required to attend a number of [residential schools](#) during their program. These are associated with Practice courses and are normally conducted at the end of Semester 3 (February), or during the mid-semester recess in Semester 2 (September/October).

Students enrolled in the external offer of a Practice Course **must attend** the residential school for that course. In some cases students enrolled in the on-campus mode may also be required to attend the residential school. Students should only enrol in a Practice Course when they are able to attend the residential school for that course. Practice courses **may not** be taken earlier than shown except with the permission of the Faculty of Health, Engineering and Sciences. In some cases students may enrol in two Practice courses in one term so they can complete the two residential schools in a two-week period. The actual dates for each residential school are shown in the [Residential School schedule](#) in this Handbook.

Safety boots are compulsory in engineering laboratories for several of the Practice courses and are strongly recommended for all other Practice courses.

## Practice courses

The majority of the practical and professional experience requirements for the program are contained within the major recommended enrolment pattern in the following table. These are zero unit courses, which are a **compulsory part** of the program, however they do not attract a student contribution charge for Australian Residents or a tuition fee for international students.

## Elective courses

Elective courses are included in the list of Academic courses. Students should select these courses from the Electives list. Students may undertake only one appropriate level five or level eight course from this program or another program in the area of Engineering and Built Environment as an Elective with the approval of the Faculty of Health, Engineering and Sciences.

## Articulation

Graduates of an Associate Degree in Spatial Science majoring in Surveying or GIS, would normally be eligible for up to 16 units of credit towards the Bachelor of Spatial Science Technology within the same field. Similarly, Bachelor of Spatial Science Technology graduates would normally be eligible for up to 24 units of credit towards the Bachelor of Spatial Science degree within the same field. Graduates of an Associate Degree in Spatial Science majoring in Urban and Regional Planning would normally be eligible for up to 16 courses of credit towards the Bachelor of Spatial Science within the same field.

Students who have completed an associate degree or certificate program in surveying more than five years ago are eligible to claim advanced standing. The number of units of advanced standing granted will depend upon the nature and currency of the studies undertaken, and on the major study undertaken.

The programs in Surveying, Geographic Information Systems and Urban and Regional Planning also articulate to and from each other and enable students to move between Surveying, Geographic Information Systems and Regional Planning degrees, whilst still retaining a significant amount of credit.

Prospective students who wish to upgrade an existing qualification should contact the Faculty 708 9tact the F

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