

Bachelor of Spatial Science (BSPS) - BSpSc

QTAC code (Australian and New Zealand applicants): Unspecified (Toowoomba campus: 907222; Distance education: 907225); Urban & Regional Planning (Distance education: 907235; Toowoomba campus: 907232)

CRICOS code (International applicants): 053511E

	On-campus	Distance education
Semester intake:	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July) Semester 3 (November)
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:	4 years full-time, 8 years part-time or external	
Program articulation:	From: Associate Degree of Spatial Science ; Bachelor of Spatial Science Technology To: Master of Spatial Science Research ; Master of Spatial Science Technology	

Contact us

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

Geographic Information Systems **Z 1jorTjF1 11 Tf1 0 0 1 98g315**

science and computing to complete surveying and spatial information projects. The Bachelor of Spatial Science may be awarded with Honours for high achieving students.

Career opportunities

Professional Surveyor in property surveying, land development, land information, mapping, engineering or the mining industry and State, Commonwealth and Local Government agencies.

Urban and Regional Planning major (New for 2013)

This program provides students with the knowledge and skills required to design communities and assess the impact of development on other residents. Students will gain knowledge of the regulatory controls that facilitate sustainable urban development, environmental planning and natural resource management

For further information on this major please see [Urban and Regional Planning](#)

Career opportunities

Professional Planners are employed in Local, State and Federal Government agencies, property development companies or in private consultancies.

Professional accreditation

The Bachelor of Spatial Science (Surveying) is fully accredited by the Surveyors Board of Queensland and is recognised in every Australian state and in New Zealand through reciprocal arrangements. The degree, together with relevant industry experience, enables registration and/or licensing as a professional surveyor with the Boards of Surveyors in Australia and New Zealand.

The [Surveying and Spatial Science Institute Australia](#) has accredited both program majors and graduates are eligible for membership.

Program aims

The Bachelor of Spatial Science program provides students with the educational requirements to become a professional spatial scientist and the ability to undertake postgraduate studies. The program equips students with a core of basic theoretical, scientific, analytical, managerial, professional, research and communication skills that will permit them to undertake an in-depth study of the fundamental science and practice of spatial science in one of two fields: Geographic Information Systems (GIS) or Surveying.

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 (GP

- 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
-

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 Bachelor of Spatial Science is a 32-unit program consisting of Academic courses and Practice courses.

Academic courses are normally one-unit courses and 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 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 major study. The competencies range from 5280 1 830 G

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 Program Coordinator responsible for the program. 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 Faculty of Engineering and Surveying as an Elective with the approval of the Head of Discipline.

Articulation

Graduates of an Associate Degree in Spatial Science, 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.

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

Prospective students who wish to upgrade an existing qualification should contact the Faculty to obtain information about likely exemptions and recommended enrolment patterns for their upgrade program.

Exit points

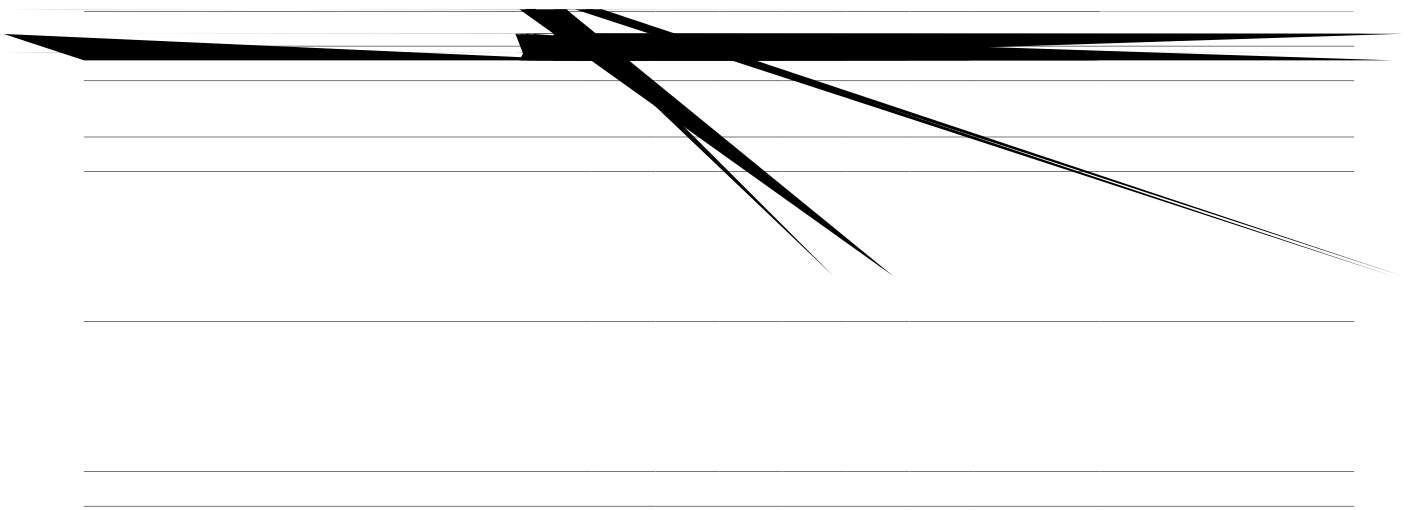
Students who, for whatever reason, are unable to complete the Bachelor of Spatial Science and who satisfy all of the requirements of either the [Bachelor of Spatial Science Technology](#), the [Associate Degree of Spatial Science](#) or the [Diploma of Engineering Studies](#) may be permitted to exit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

Honours

The Bachelor of Spatial Science may be awarded with Honours.

- the grade achieved by the student in the courses [ENG4111 Research Project Part 1](#) and [ENG4112 Research Project Part 2](#) (unless the student is exempted from these courses).

The minimum levels of achievement normally required for each class of honours are shown in the follo



Major study: Geographic Information Systems (Major Study Code: 15407)								
Course	Year of program and semester in which course is normally studied						Residential school (compulsory /optional)	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)			
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Electives (Select from the following)								
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Footnotes

- < The on-campus offering of this course has been timetabled for Semester 1. Students may consider enrolling in semester 2 however they may experience timetable clashes.
- ^ It is recommended that these courses are undertaken in the same academic year.
- + It is recommended that students in the Bachelor of Spatial Science should have completed [ENG3902](#) prior to undertaking this course.
- ++ It is recommended that students in the Bachelor of Spatial Science should also be enrolled in [ENG4903](#) while undertaking this course.
- ~ On-campus students should enrol in the external offering of this course
- # Students who have completed GIS2901 do not need to undertake [SVY2902](#).
- > Students who have completed GIS3901 do not need to undertake [SVY2903](#).

Notes:

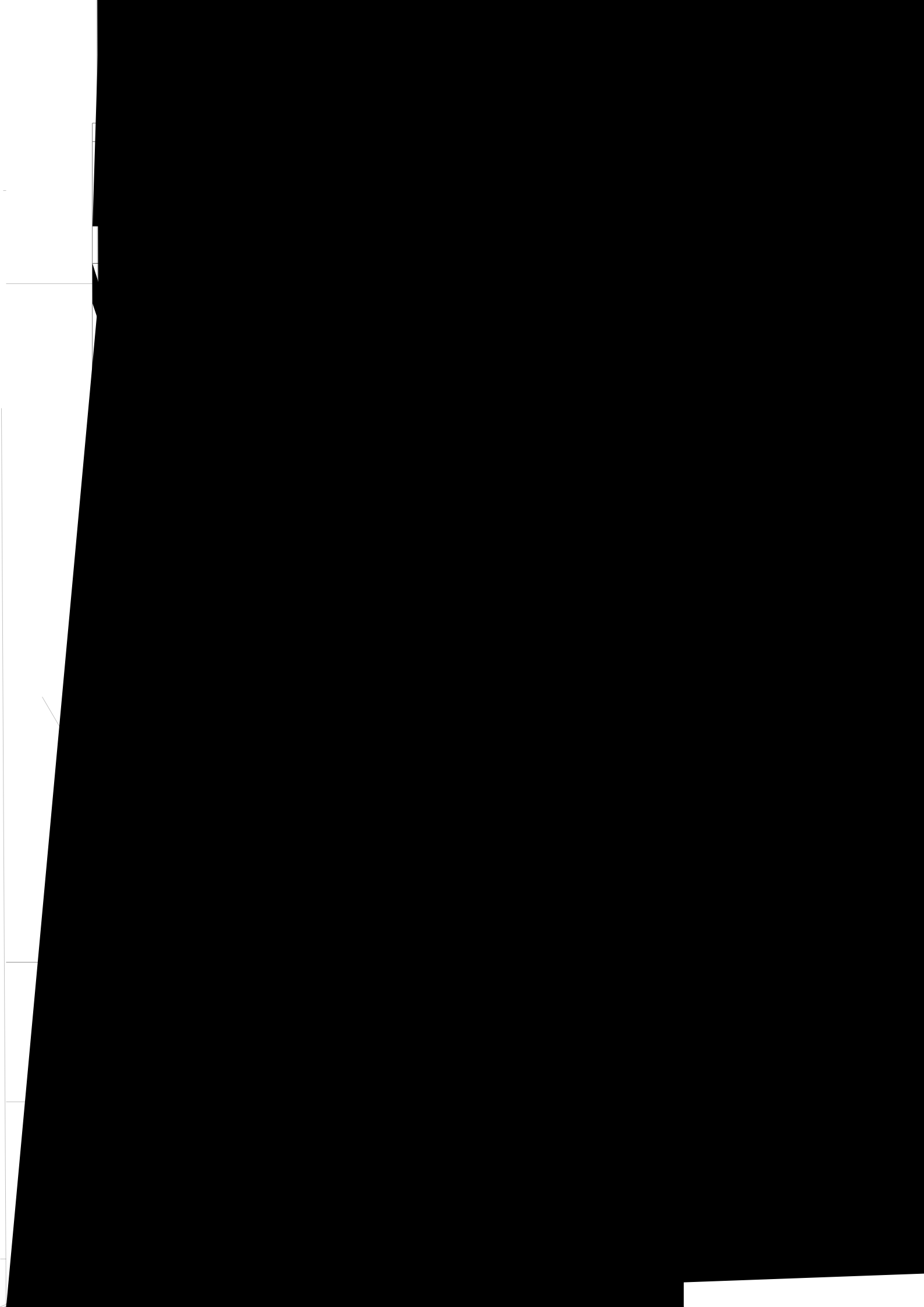
For students transferring from one program to another a complete list of enrolment requirements are available in the [course synopses](#) section of this Handbook.

Other courses may be admissible as an Elective. However students must obtain approval from the relevant Head or Program Coordinator prior to enrolling in the course. Students may undertake only one appropriate level five or level eight course from this program or another program in the Faculty of Engineering and Surveying as an Elective with the approval of the Head of Discipline.

Surveying Major recommended enrolment pattern

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

Surveying Major recommended enrolment pattern



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