

Associate Degree of Spatial Science (ADSS) - AssocDegSpSc

QTAC code (Australian and New Zealand applicants): (External: 907065; Toowoomba campus: 907062);
Surveying (Springfield campus: 927061)

CRICOS code (International applicants): 053510F

	On-campus ^{^*}	External ^{^@*}
Semester intake:	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)
Campus:	Springfield, 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
Residential school:		Springfield, Toowoomba
Standard duration:	2 years full-time, 4 years part-time	
Program articulation:	To: Bachelor of Spatial Science (Honours) ; Bachelor of Spatial Science Technology	

Footnotes

- [^] Availability of majors: Geographic Information Systems — on-campus at USQ Toowoomba and external; Surveying — on-campus at USQ Toowoomba, USQ Springfield, and external; Urban and Regional Planning — on-campus at USQ Toowoomba and external.
- ^{*} The Urban and Regional Planning major articulates fully to the ; [Bachelor of Spatial Science \(Honours\)](#). With the possible exception of a couple of courses, the other majors articulate to the ; [Bachelor of Spatial Science Technology](#) and the ; [Bachelor of Spatial Science \(Honours\)](#).
- [@] International overseas students are advised against studying this program, as it contains mandatory residential schools. External students must be able to attend mandatory residential schools at a USQ campus.

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

Professional accreditation

The Associate Degree of Spatial Science (Surveying) is accredited by the Surveyors Board of Queensland and graduates may seek registration with the Board of Surveyors.

Graduates from the GIS and Surveying majors in the Associate Degree of Spatial Science are eligible to apply for membership with the [Surveying and Spatial Sciences Institute Australia](#).

Program aims

The Associate Degree of Spatial Science program provides students with the theory, methods and practices required by an associate to support a practising professional spatial scientist. To this end the program provides students with a general understanding of the broad practice and knowledge in the spatial science profession and the technical skills to work in one of three fields: Geographic Information Systems (GIS), Surveying or Urban and Regional Planning.

Program objectives

A student who successfully completes the Associate Degree of Spatial Science should be able to:

- display a broad range of theoretical and technical knowledge, including the underlying principles and concepts fundamental to spatial science
- identify, analyse and evaluate information in order to solve technical problems within a limited range and context of spatial science
- collect, store, adapt and manipulate spatial data to communicate effectively with a range of audiences including professionals, para-professionals, clients and the wider community
- exercise appropriate judgement when identifying and responding to cultural, ethical, environmental and social issues
- adapt to change, master new techniques and the skills required to process information and pathway to undertake further learning and study

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 06. Graduates at this level will have broad knowledge and skills for paraprofessional/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.

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) **16**, tertiary entrance rank **66** or equivalent qualification.[^]
- Subject Pre-requisites: English (4, SA), Mathematics A (4, SA) or equivalent.
- English Language Proficiency requirements for Category 2.

Applicants are advised to also note the following:

- Recommended Prior Study: Mathematics B (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 Associate Degree of Spatial Science program consists of 16 Academic courses and two or three Practice courses, depending upon major (Geographic Information Systems, Surveying or Urban and Regional Planning).

Academic courses are 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.

Required time limits

Students have a maximum of 6 years to complete this program.

Electives/Approved courses

Approved courses are part of the academic program and students should select approved courses from the list provided.

Practice courses

The major practical work requirements associated with each of the Engineering and Built Environment programs are contained within a series of Practice courses. These courses are designed to enhance learning, communication and practical skills through laboratory sessions, workshops, seminars, field trips and group activities.

Practical experience

Work experience is desirable and encouraged but is not required for the completion of the Associate Degree of Spatial Science. Students are encouraged to obtain work 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. 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. To 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.

Geographic Information Systems

- [SVY1901 Surveying and Spatial Science Practice 1](#)
- [GPL2901 GIS and Planning Practice 1](#)

Surveying

- [SVY1901 Surveying and Spatial Science Practice 1](#)
- [SVY2902 Surveying and Spatial Science Practice 2](#)
- [SVY2903 Surveying and Spatial Science Practice 3](#)

Urban and Regional Planning

- [SVY1901 Surveying and Spatial Science Practice 1](#)
- [GPL2901 GIS and Planning Practice 1](#)

Articulation

Students can articulate, sometimes with the exception of a couple of courses, into the [Bachelor of Spatial Science Technology](#) and [Bachelor of Spatial Science \(Honours\)](#) programs.

Exit points

Students who, for whatever reason, are unable to complete the Associate Degree of Spatial Science and who satisfy all of the requirements of 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 Associate Degree of Spatial Science program.

Geographic Information Systems major recommended full-time enrolment pattern

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.

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 specification](#) to ascertain if a course is offered in another term.

Major study: Geographic Information Systems (Major Study Code: 15409)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
Academic Courses, Year 1								
Year 1, Semester 1								
ENM1500 Introductory Engineering Mathematics *	1	1					1,2	
GIS1402 Geographic Information Systems	1	1					1,3	
SVY1102 Surveying A	1	1					1	
ENG1003 Problem Solving in Engineering and the Built Environment	1	1					1	
Year 1, Semester 2								
GIS1401 Geographic Data Presentation	1	2					2	
ENG1002 Introduction to Engineering and Built Environment Applications	1	2					1,2	
SVY1110 Introduction to Global Positioning System	1	2					2	
CSC1401 Foundation Programming	1	2					1,2	
Practice Course, Year 1								
SVY1901 Surveying and Spatial Science Practice 1	1	1	2	1				M
Academic Courses, Year 2								
Year 2, Semester 1								
ENV2201 Land Studies	2	1					1	
SVY3202 Photogrammetry and Remote Sensing	2	1					1	
GIS3407 GIS Programming and Visualisation	2	1					1	Pre-requisite: GIS1402 and CSC1401 or Students must be enrolled in one of the following Programs: GDST or MSST or GCST or MENS or MSPT
Approved Course (Select from the Approved Courses list)	2	1					1	

Major study: Geographic Information Systems (Major Study Code: 15409)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
Year 2, Semester 2								
Approved Course (Select from the Approved Courses list)	2	2				2		
Approved Course (Select from the Approved Courses list)	2	2				2		
SVY3302 Property Valuation and Development	2	2				2		
GIS3405 Spatial Analysis and Modelling	2	2				2		
Practice Course, Year 2								
GPL2901 GIS and Planning Practice 1			3	3			M	Pre-requisite: (GIS1401 and GIS1402) or (URP2001) or (Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS)
Approved Courses (Select 3 courses from the following)								
ACC1101 Accounting for Decision-Making		1,2				1,2,3		
AGR2301 Agricultural Science		2				2		
CIS2002 Database Design and Implementation		1				1,3		
GIS4407 Web Based Geographic Information System		2				2		Pre-requisite: GIS1402 or S students must be enrolled in one of the following Program s: GCST or GDST or MSST or MSPT or GCNS or GDNS or MENS
ENG2002 Technology, Sustainability and Society		1,2				1,2,3		
ENM1600 Engineering Mathematics		1				1,2		
REN1201 Environmental Studies		1				1		
MKT1001 Introduction to Marketing		1				1,2,3		
GIS3406 Remote Sensing and Image Processing		2				2		
SVY1104 Survey Computations A		2				2		Pre-requisite: SVY1102 or SVY1500 or Students must be enrolled in one of the following Programs: GCST or GDST or MSPT
URP1001 Introduction to Urban and Regional Planning		1				1		
URP2002 Local Government Planning Practice and Technology		2				2		

Footnotes

- * Students who achieve a high level in Year 12 Mathematics, or an equivalent mathematics program, may be eligible to replace the study of [ENM1500 Introductory Engineering Mathematics](#) with [ENM1600 Engineering Mathematics](#).

Geographic Information Systems major recommended part-time enrolment pattern

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.

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 specification](#) to ascertain if a course is offered in another term.

Major study: Geographic Information Systems (Major Study Code: 15409)									
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements	
	On-campus (ONC)		External (EXT)		Online (ONL)				
	Year	Sem	Year	Sem	Year	Sem			
Academic Courses, Years 1-2									
Year 1, Semester 1									
ENM1500 Introductory Engineering Mathematics *	1	1					1,2		
GIS1402 Geographic Information Systems	1	1					1,3		
Year 1, Semester 2									
GIS1401 Geographic Data Presentation	1	2					2		
ENG1002 Introduction to Engineering and Built Environment Applications	1	2					1,2		
Year 2, Semester 1									
SVY1102 Surveying A	2	1					1		
ENG1003 Problem Solving in Engineering and the Built Environment	2	1					1		
Year 2, Semester 2									
SVY1110 Introduction to Global Positioning System	2	2					2		
CSC1401 Foundation Programming	2	2					1,2		
Practice Course, Year 1 or 2									
SVY1901 Surveying and Spatial Science Practice 1	2	1		1				M	
Academic Courses, Years 3-4									
Year 3, Semester 1									
ENV2201 Land Studies	3	1					1		
SVY3202 Photogrammetry and Remote Sensing	3	1					1		
Year 3, Semester 2									
Approved Course (Select from the Approved Courses list)	3	2					2		
SVY3302 Property Valuation and Development	3	2					2		
Year 4, Semester 1									
GIS3407 GIS Programming and Visualisation	4	1					1		Pre-requisite: GIS1402 and CSC1401 or Students must be enrolled in one of the following Programs: GDST or MSST or GCST or MENS or MSPT
Approved Course (Select from the Approved Courses list)	4	1					1		
Year 4, Semester 2									
Approved Course (Select from the Approved Courses list)	4	2					2		
GIS3405 Spatial Analysis and Modelling	4	2					2		
Practice Course, Year 3 or 4									
GPL2901 GIS and Planning Practice 1	3			3				M	Pre-requisite: (GIS1401 and GIS1402) or (URP2001) or (Students must be enrolled in one of the following Pro

Major study: Geographic Information Systems (Major Study Code: 15409)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
							grams: GCNS or GDNS or MENS)	
Approved Courses (Select 3 courses from the following)								
ACC1101 Accounting for Decision-Making			1,2				1,2,3	
AGR2301 Agricultural Science			2				2	
CIS2002 Database Design and Implementation			1				1,3	
GIS4407 Web Based Geographic Information System			2				2	Pre-requisite: GIS1402 or S tudents must be enrolled in one of the following Program s: GCST or GDST or MSST or MSPT or GCNS or GDNS or MENS
ENG2002 Technology, Sustainability and Society			1,2				1,2,3	
ENM1600 Engineering Mathematics			1				1,2	
REN1201 Environmental Studies			1				1	
MKT1001 Introduction to Marketing			1				1,2,3	
GIS3406 Remote Sensing and Image Processing			2				2	
SVY1104 Survey Computations A			2				2	Pre-requisite: SVY1102 or SVY1500 or Students must be enrolled in one of the following Programs: GCST or GDST or MSPT
URP1001 Introduction to Urban and Regional Planning			1				1	
URP2002 Local Government Planning Practice and Technology			2				2	

Footnotes

- * Students who achieve a high level in Year 12 Mathematics, or an equivalent mathematics program, may be eligible to replace the study of [ENM1500 Introductory Engineering Mathematics](#) with [ENM1600 Engineering Mathematics](#).

Surveying major recommended full-time enrolment pattern (Toowoomba and Springfield campus)

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.

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 specification](#) to ascertain if a course is offered in another term.

Major study: Surveying (Major Study Code: 15410)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
Academic Courses, Year 1								
Year 1, Semester 1								
ENM1500 Introductory Engineering Mathematics *	1	1					1,2	
GIS1402 Geographic Information Systems	1	1					1,3	
SVY1102 Surveying A	1	1					1	

Major study: Surveying (Major Study Code: 15410)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
ENG1003 Problem Solving in Engineering and the Built Environment	1	1				1		
Year 1, Semester 2								
ENG1002 Introduction to Engineering and Built Environment Applications	1	2				1,2		
SVY1110 Introduction to Global Positioning System	1	2				2		
GIS1401 Geographic Data Presentation	1	2				2		
SVY1104 Survey Computations A	1	2				2		Pre-requisite: SVY1102 or SVY1500 or Students must be enrolled in one of the following Programs: GCST or GDST or MSPT
Practice Course, Year 1								
SVY1901 Surveying and Spatial Science Practice 1	1	1	2	1			M	
Academic Courses, Year 2								
Year 2, Semester 1								
SVY2301 Automated Surveying Systems	2	1				1		Pre-requisite: SVY1104 or Students must be enrolled in one of the following Programs: GCST or GDST or MSPT
SVY2106 Geodetic Surveying A	2	1				1		Pre-requisite: SVY1110 and SVY1102 or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MSPT or MENS
SVY3202 Photogrammetry and Remote Sensing	2	1				1		
SVY2302 Mine Surveying	2	1				1		Pre-requisite: SVY1104 or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSPT
Year 2, Semester 2								
Approved Course (Select from the Approved Courses list)	2	2				2		
SVY2303 Construction Surveying	2	2				2		Pre-requisite: SVY1104
Approved Course (Select from the Approved Courses list)	2	2				2		
Choose one of the following two courses:								
SVY3304 Cadastral Surveying (Queensland)^{^^}	2	2				2		Pre-requisite: (SVY1102 and SVY1104) or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MSPT or MENS
SVY3306 Cadastral Surveying (New South Wales)^{^^}						2		Pre-requisite: (SVY1102 and SVY1104) or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MENS

Major study: Surveying (Major Study Code: 15410)									
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements	
	On-campus (ONC)		External (EXT)		Online (ONL)				
	Year	Sem	Year	Sem	Year	Sem			
Practice Courses, Year 2									
SVY2902 Surveying and Spatial Science Practice 2	2	1	3	3			M	Pre-requisite: SVY1901 and SVY1104 and SVY1110 and GIS1401	
SVY2903 Surveying and Spatial Science Practice 3	2	2	4	3			M	Pre-requisite: SVY1901 and SVY2301 and SVY2106 and SVY3202	
Approved Courses (Select from the following)									
SVY3304 Cadastral Surveying (Queensland) **	2	2				2		Pre-requisite: (SVY1102 and SVY1104) or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MSPT or MENS	
SVY3306 Cadastral Surveying (New South Wales) **						2		Pre-requisite: (SVY1102 and SVY1104) or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MENS	
CIV2605 Construction Engineering		1				1			
CIV2701 Road Design and Location		1				1		Pre-requisite: MAT1500 or ENG1500 or ENM1500 or ENM1600 or Students must be enrolled in one of the following Programs: GCST or GDST or GCEN	
SVY3107 Geodetic Surveying B		2				2		Pre-requisite: SVY1110 or Students must be enrolled in one of the following Program s: GCNS or GCST or GDNS or GDST or MSST or MSPT or MENS	
URP2002 Local Government Planning Practice and Technology		2				2			
ENV2201 Land Studies		1				1			
ENM1600 Engineering Mathematics		1				1,2			
REN1201 Environmental Studies		1				1			
SVY3302 Property Valuation and Development		2				2			
URP1001 Introduction to Urban and Regional Planning		1				1			
URP3201 Sustainable Urban Design and Development		2				2			
GIS3405 Spatial Analysis and Modelling		2				2			

Footnotes

* Students who achieve a high level in Year 12 Mathematics, or an equivalent mathematics program, may be eligible to replace the study of [ENM1500 Introductory Engineering Mathematics](#) with [ENM1600 Engineering Mathematics](#).

^^ Students should study the course appropriate to their intended jurisdiction of practice.

** The alternative to the previously completed Cadastral core course may be taken as an elective/approved course.

Surveying major recommended part-time enrolment pattern (Toowoomba and Springfield campus)

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.

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 specification](#) to ascertain if a course is offered in another term.

Major study: Surveying (Major Study Code: 15410)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
Academic Courses, Years 1-2								
Year 1, Semester 1								
ENM1500 Introductory Engineering Mathematics *	1	1					1,2	
GIS1402 Geographic Information Systems	1	1					1,3	
Year 1, Semester 2								
ENG1002 Introduction to Engineering and Built Environment Applications	1	2					1,2	
SVY1110 Introduction to Global Positioning System	1	2					2	
Year 2, Semester 1								
SVY1102 Surveying A	2	1					1	
ENG1003 Problem Solving in Engineering and the Built Environment	2	1					1	
Year 2, Semester 2								
GIS1401 Geographic Data Presentation	2	2					2	
SVY1104 Survey Computations A	2	2					2	Pre-requisite: SVY1102 or SVY1500 or Students must be enrolled in one of the following Programs: GCST or GDST or MSPT
Practice Course, Year 1 or 2								
SVY1901 Surveying and Spatial Science Practice 1	2	1		1				M
Academic Courses, Years 3-4								
Year 3, Semester 1								
SVY2301 Automated Surveying Systems	3	1					1	Pre-requisite: SVY1104 or Students must be enrolled in one of the following Programs: GCST or GDST or MSPT
SVY2106 Geodetic Surveying A	3	1					1	Pre-requisite: SVY1110 and SVY1102 or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MSPT or MENS
Year 3, Semester 2								
Approved Course (Select from the Approved Courses list)	3	2					2	
SVY2303 Construction Surveying	3	2					2	Pre-requisite: SVY1104
Year 4, Semester 1								
SVY3202 Photogrammetry and Remote Sensing	4	1					1	
SVY2302 Mine Surveying	4	1					1	Pre-requisite: SVY1104 or Students must be enrolled in one of the following Program

Major study: Surveying (Major Study Code: 15410)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
								s: GCNS or GCST or GDNS or GDST or MSPT
Year 4, Semester 2								
Approved Course (Select from the Approved Courses list)	4	2				2		
Choose one of the following two courses:								
SVY3304 Cadastral Surveying (Queensland) ^{^^}	2	2				2		Pre-requisite: (SVY1102 and SVY1104) or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MSPT or MENS
SVY3306 Cadastral Surveying (New South Wales) ^{^^}						2		Pre-requisite: (SVY1102 and SVY1104) or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MENS
Practice Courses, Year 3 or 4								
SVY2902 Surveying and Spatial Science Practice 2	3	1		3			M	Pre-requisite: SVY1901 and SVY1104 and SVY1110 and GIS1401
SVY2903 Surveying and Spatial Science Practice 3	4	2		3			M	Pre-requisite: SVY1901 and SVY2301 and SVY2106 and SVY3202
Approved Courses (Select from the following)								
SVY3304 Cadastral Surveying (Queensland) ^{**}	2	2				2		Pre-requisite: (SVY1102 and SVY1104) or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MSPT or MENS
SVY3306 Cadastral Surveying (New South Wales) ^{**}						2		Pre-requisite: (SVY1102 and SVY1104) or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MENS
CIV2605 Construction Engineering		1				1		
CIV2701 Road Design and Location		1				1		Pre-requisite: MAT1500 or ENG1500 or ENM1500 or ENM1600 or Students must be enrolled in one of the following Programs: GCST or GDST or GCEN
SVY3107 Geodetic Surveying B		2				2		Pre-requisite: SVY1110 or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MSPT or MENS
URP2002 Local Government Planning Practice and Technology		2				2		
ENV2201 Land Studies		1				1		

Major study: Surveying (Major Study Code: 15410)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
ENM1600 Engineering Mathematics		1				1,2		
REN1201 Environmental Studies		1				1		
SVY3302 Property Valuation and Development		2				2		
URP1001 Introduction to Urban and Regional Planning		1				1		
URP3201 Sustainable Urban Design and Development		2				2		
GIS3405 Spatial Analysis and Modelling		2				2		

Footnotes

- * Students who achieve a high level in Year 12 Mathematics, or an equivalent mathematics program, may be eligible to replace the study of [ENM1500 Introductory Engineering Mathematics](#) with [ENM1600 Engineering Mathematics](#).
- ^^ Students should study the course appropriate to their intended jurisdiction of practice.
- ** The alternative to the previously completed Cadastral core course may be taken as an elective/approved course.

Urban and Regional Planning major recommended full-time enrolment pattern

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.

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 specification](#) to ascertain if a course is offered in another term.

Major study: Urban and Regional Planning (Major Study Code: 16734)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
Academic Courses Year 1								
Year 1, Semester 1								
SVY1102 Surveying A	1	1				1		
GIS1402 Geographic Information Systems	1	1				1,3		
URP1001 Introduction to Urban and Regional Planning	1	1				1		
ENG1003 Problem Solving in Engineering and the Built Environment	1	1				1		
Year 1, Semester 2								
GIS1401 Geographic Data Presentation	1	2				2		
ENG1002 Introduction to Engineering and Built Environment Applications	1	2				1,2		
LAW1500 Introduction to Business and Company Law	1	2				2	Pre-requisite: Students enrolled in one of the following Programs: LLBP or BLAW or BABL or BALW or BBBL or BBLA or BCBL or BCLA or BCLW are not eligible for enrolment Enrolment is not permitted in LAW1500 if LAW1101 has been previously completed	
Approved Course (Select from the Approved Courses list)	1	2				2		
Practice Course, Year 1								
SVY1901 Surveying and Spatial Science Practice 1	1	1	2	1			M	

Major study: Urban and Regional Planning (Major Study Code: 16734)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
Academic Courses Year 2								
Year 2, Semester 1								
ENV2201 Land Studies	2	1				1		
PRL2002 Community Consultation and Development	2	1				1		
URP2001 Planning Structures and Statutory Planning	2	1				1		
CMG1001 Introduction to Construction Management and the Built Environment	2	1				1		
Year 2, Semester 2								
Approved Course (Select from the Approved Courses list)	2	2				2		
URP2002 Local Government Planning Practice and Technology	2	2				2		
SVY1110 Introduction to Global Positioning System	2	2				2		
Approved Course (Select from the Approved Courses list)	2	2				2		
Practice Course, Year 2								
GPL2901 GIS and Planning Practice 1			2	3			M	Pre-requisite: GIS1401 and GIS1402 or URP2001 or (Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS)
Approved Courses (Select from the following)								
ACC1101 Accounting for Decision-Making		1,2				1,2,3		
ECO1000 Economics		1				1,2,3		
MGT1000 Organisational Behaviour		1				1,2,3		
POL3013 Sustainability and Politics						1		
SVY3202 Photogrammetry and Remote Sensing		1				1		
GIS3405 Spatial Analysis and Modelling		2				2		
GIS4407 Web Based Geographic Information System		2				2		Pre-requisite: GIS1402 or Students must be enrolled in one of the following Programs: GCST or GDST or MSST or MSPT or GCNS or GDNS or MENS
LAW2107 Environmental Law *		1				1		Co-requisite: LAW1101 or LAW1500 or ENG2002 or REN1201 or (Students enrolled in BEDU (Legal Studies) or BLAW or LLBP or BALW or BBLA or BCLA or BCLW & Co-requisite LAW1201 or LAW1111) or (Students enrolled in DJUR & Co-requisite LAW5501 or LAW5111)
SVY3302 Property Valuation and Development		2				2		
URP3201 Sustainable Urban Design and Development		2				2		

Footnotes

* On-campus offer available at Springfield only

Urban and Regional Planning major recommended part-time enrolment pattern

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.

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 specification](#) to ascertain if a course is offered in another term.

Major study: Urban and Regional Planning (Major Study Code: 16734)									
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements	
	On-campus (ONC)		External (EXT)		Online (ONL)				
	Year	Sem	Year	Sem	Year	Sem			
Academic Courses Year 1									
Year 1, Semester 1									
SVY1102 Surveying A	1	1				1			
GIS1402 Geographic Information Systems	1	1				1,3			
Year 1, Semester 2									
GIS1401 Geographic Data Presentation	1	2				2			
ENG1002 Introduction to Engineering and Built Environment Applications	1	2				1,2			
Year 2, Semester 1									
URP1001 Introduction to Urban and Regional Planning	2	1				1			
ENG1003 Problem Solving in Engineering and the Built Environment	2	1				1			
Year 2, Semester 2									
LAW1500 Introduction to Business and Company Law	2	2				2			Pre-requisite: Students enrolled in one of the following Programs: LLBP or BLAW or BABL or BALW or BBBL or BBBLA or BCBL or BCLA or BCLW are not eligible for enrolment Enrolment is not permitted in LAW1500 if LAW1101 has been previously completed
Approved Course (Select from the Approved Courses list)	2	2				2			
Practice Course, Year 1 or 2									
SVY1901 Surveying and Spatial Science Practice 1	2	1		1			M		
Academic Courses Years 3-4									
Year 3, Semester 1									
ENV2201 Land Studies	3	1				1			
PRL2002 Community Consultation and Development	3	1				1			
Year 3, Semester 2									
Approved Course (Select from the Approved Courses list)	3	2				2			
URP2002 Local Government Planning Practice and Technology	3	2				2			
Year 4, Semester 1									
URP2001 Planning Structures and Statutory Planning	4	1				1			

Major study: Urban and Regional Planning (Major Study Code: 16734)								
Course	Year of program and semester in which course is normally studied						Residential school	Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
CMG1001 Introduction to Construction Management and the Built Environment	4	1				1		
Year 4, Semester 2								
SVY1110 Introduction to Global Positioning System	4	2				2		
Approved Course (Select from the Approved Courses list)	4	2				2		
Practice Course, Year 3 or 4								
GPL2901 GIS and Planning Practice 1	4			3			M Pre-requisite: (GIS1401 and GIS1402) or (URP2001) or (Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS)	
Approved Courses (Select from the following)								
ACC1101 Accounting for Decision-Making		1,2				1,2,3		
ECO1000 Economics		1				1,2,3		
MGT1000 Organisational Behaviour		1				1,2,3		
POL3013 Sustainability and Politics						1		
SVY3202 Photogrammetry and Remote Sensing		1				1		
GIS3405 Spatial Analysis and Modelling		2				2		
GIS4407 Web Based Geographic Information System		2				2	Pre-requisite: GIS1402 or Students must be enrolled in one of the following Programs: GCST or GDST or MSST or MSPT or GCNS or GDNS or MENS	
LAW2107 Environmental Law *		1				1	Co-requisite: LAW1101 or LAW1500 or ENG2002 or REN1201 or (Students enrolled in BEDU (Legal Studies) or BLAW or LLBP or BALW or BBLA or BCLA or BCLW & Co-requisite LAW1201 or LAW1111) or (Students enrolled in DJUR & Co-requisite LAW5501 or LAW5111)	
SVY3302 Property Valuation and Development		2				2		
URP3201 Sustainable Urban Design and Development		2				2		

Footnotes

* On-campus offer available at Springfield only