

## Associate Degree of Spatial Science (ADSS) - AssocDegSpSc

QTAC code (Australian and New Zealand applicants): Surveying (Springfield campus: 927061); (Toowoomba campus: 907061; External: 907065)

CRICOS code (International applicants): 053510F

	On-campus <sup>^*</sup>	External <sup>^@*</sup>
<b>Start:</b>	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)
<b>Campus:</b>	Springfield, Toowoomba	-
<b>Fees:</b>	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
<b>Residential school:</b>		Springfield, Toowoomba
<b>Standard duration:</b>	2 years full-time, 4 years part-time	
<b>Program articulation:</b>	To: <a href="#">Bachelor of Spatial Science Technology</a> ; <a href="#">Bachelor of Spatial Science (Honours)</a> ; <a href="#">Bachelor of Urban and Regional Planning (Honours)</a>	

### Notes:

In 2023 the program follows the Semester calendar. The [Academic Calendar and Important Dates](#) webpage will allow you to view and download a copy of the important dates for the Semester calendar.

### Footnotes

- <sup>^</sup> Availability of majors: Geographic Information Systems — on-campus at UniSQ Toowoomba and external; Surveying — on-campus at UniSQ Toowoomba, UniSQ Springfield, and external; Urban and Regional Planning — on-campus at UniSQ Toowoomba and external.
- <sup>\*</sup> The Urban and Regional Planning major articulates fully to the ; [Bachelor of Urban and Regional Planning \(Honours\)](#). 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 \(Honours\)](#).
- <sup>@</sup> 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 UniSQ campus.

## Contact us

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

## 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](http://www.aqf.edu.au).

## Program Information Set

View UniSQ'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 Australian Tertiary Admission Rank (ATAR) of **62.7**, or equivalent qualification.<sup>^</sup>
- English Language Proficiency requirements for Category 2.

Applicants are advised to also note the following:

- [Assumed knowledge](#) expectations: English; General Mathematics
- Recommended Prior Study: Mathematical Methods (Units 3 & 4, C) 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.

<sup>^</sup> These are determined by the University for specific programs each Semester. The 2023 ATAR 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.

Adjustment factors may help you get into the program of your choice by increasing your entrance rank. The additional points don't apply to all applicants or all programs. Please read the information about UniSQ's [Adjustment Factors](#) 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 Schedules](#).

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 Schedule](#)

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, external or online. Students are able to calculate the fees for a particular course via the [Course Fee Schedules](#).

## 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

For information technology requirements, please refer to the [minimum computing standards](#).

## Residential schools

The attendance requirement of residential schools within this degree is indicated by the following letters: 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

The Urban and Regional Planning major articulates fully to the [Bachelor of Urban and Regional Planning \(Honours\)](#). 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 \(Honours\)](#).

## 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 [UniSQ 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

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 <sup>*§</sup>	1	1				1,2		Enrolment is not permitted in ENM1500 if MAT1100 or MAT1102 or ENM1600 or ENG1500 has been previously completed	
GIS1402 Geographic Information Systems <sup>£</sup>	1	1				1,3			
SVY1102 Surveying A	1	1				1			
ENG1003 Problem Solving in Engineering and the Built Environment <sup>&lt;</sup>	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 <sup>£</sup>	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			
Year 2, Semester 2									
Approved Course (Select from the Approved Courses list)	2	2				2			

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		
Approved Course (Select from the Approved Courses list)	2	2				2		
<a href="#">SVY3302 Property Valuation and Development</a>	2	2				2		
<a href="#">GIS2405 Spatial Analysis and Modelling</a>	2	2				2		
<b>Practice Course, Year 2</b>								
<a href="#">GPL2901 GIS and Planning Practice 1</a> <sup>£</sup>			3	3			M	Pre-requisite: <a href="#">GIS1401</a> and <a href="#">GIS1402</a> ) or ( <a href="#">URP2001</a> ) or (Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS)
<b>Approved Courses (Select 3 courses from the following)</b>								
<a href="#">ACC1201 Data Insights and Financial Performance</a> <sup>£</sup>		1,2				1,2		Enrolment is not permitted in <a href="#">ACC1201</a> if ACC1101 has been previously completed.
<a href="#">AGR2301 Agricultural Science</a>		2				2		
<a href="#">CSC3400 Database Systems</a> <sup>£</sup>		1				1,3		Pre-requisite: <a href="#">CSC1401</a> or <a href="#">CIS1000</a> Enrolment is not permitted in <a href="#">CSC3400</a> if CIS2002 has been previously completed.
<a href="#">GIS2407 Web Based Geographic Information System</a>		2				2		Pre-requisite: <a href="#">GIS1402</a> 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
<a href="#">ENG2002 Technology, Sustainability and Society</a>		1,2				1,2,3		
<a href="#">ENM1600 Engineering Mathematics</a>		1				1,2		Enrolment is not permitted in <a href="#">ENM1600</a> if <a href="#">MAT1102</a> or MAT1502 has been previous ly completed
<a href="#">REN1201 Environmental Studies</a>		1				1		Enrolment is not permitted in <a href="#">REN1201</a> if <a href="#">REN8101</a> has been previously completed.
<a href="#">MKT1001 Marketing Fundamentals</a>		1				1,2		Enrolment is not permitted in <a href="#">MKT1001</a> if <a href="#">MKT1100</a> has been previously completed (excluding BBIZ 19398 Mar keting major students)
<a href="#">GIS3406 Remote Sensing and Image Processing</a>		2				2		
<a href="#">SVY1104 Survey Computations A</a>		2				2		Pre-requisite: <a href="#">SVY1102</a> or <a href="#">SVY1500</a> or Students must be enrolled in one of the fol lowing Programs: GCST or GDST or MSPT
<a href="#">URP1001 Introduction to Urban and Regional Planning</a>		1				1		
<a href="#">URP2002 Local Government Planning Practice and Technology</a>		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](#).
- § Unavailable online in S3 2023
- £ In Semester 3, 2023 this course will be delivered as a Transition (9 week) semester, commencing on 13 November 2023 and concluding on 12 January 2024

< Unavailable online in S2 2023

## Geographic Information Systems major recommended part-time 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 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 <sup>*§</sup>	1	1				1,2		Enrolment is not permitted in ENM1500 if MAT1100 or MAT1102 or ENM1600 or ENG1500 has been previously completed	
GIS1402 Geographic Information Systems <sup>£</sup>	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 <sup>&lt;</sup>	2	1				1			
Year 2, Semester 2									
SVY1110 Introduction to Global Positioning System	2	2				2			
CSC1401 Foundation Programming <sup>£</sup>	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			

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 4, Semester 2								
Approved Course (Select from the Approved Courses list)	4	2				2		
<a href="#">GIS2405 Spatial Analysis and Modelling</a>	4	2				2		
Practice Course, Year 3 or 4								
<a href="#">GPL2901 GIS and Planning Practice 1</a> <sup>£</sup>	3			3			M	Pre-requisite: <a href="#">GIS1401</a> and <a href="#">GIS1402</a> or ( <a href="#">URP2001</a> ) or (Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS)
Approved Courses (Select 3 courses from the following)								
<a href="#">ACC1201 Data Insights and Financial Performance</a> <sup>£</sup>		1,2				1,2		Enrolment is not permitted in <a href="#">ACC1201</a> if <a href="#">ACC1101</a> has been previously completed.
<a href="#">AGR2301 Agricultural Science</a>		2				2		
<a href="#">CSC3400 Database Systems</a> <sup>£</sup>		1				1,3		Pre-requisite: <a href="#">CSC1401</a> or <a href="#">CIS1000</a> Enrolment is not permitted in <a href="#">CSC3400</a> if <a href="#">CIS2002</a> has been previously completed.
<a href="#">GIS2407 Web Based Geographic Information System</a>		2				2		Pre-requisite: <a href="#">GIS1402</a> 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
<a href="#">ENG2002 Technology, Sustainability and Society</a>		1,2				1,2,3		
<a href="#">ENM1600 Engineering Mathematics</a>		1				1,2		Enrolment is not permitted in <a href="#">ENM1600</a> if <a href="#">MAT1102</a> or <a href="#">MAT1502</a> has been previous ly completed
<a href="#">REN1201 Environmental Studies</a>		1				1		Enrolment is not permitted in <a href="#">REN1201</a> if <a href="#">REN8101</a> has been previously completed.
<a href="#">MKT1001 Marketing Fundamentals</a>		1				1,2		Enrolment is not permitted in <a href="#">MKT1001</a> if <a href="#">MKT1100</a> has been previously completed (excluding BBIZ 19398 Mar keting major students)
<a href="#">GIS3406 Remote Sensing and Image Processing</a>		2				2		
<a href="#">SVY1104 Survey Computations A</a>		2				2		Pre-requisite: <a href="#">SVY1102</a> or <a href="#">SVY1500</a> or Students must be enrolled in one of the fol lowing Programs: GCST or GDST or MSPT
<a href="#">URP1001 Introduction to Urban and Regional Planning</a>		1				1		
<a href="#">URP2002 Local Government Planning Practice and Technology</a>		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](#).
- § Unavailable online in S3 2023

£ In Semester 3, 2023 this course will be delivered as a Transition (9 week) semester, commencing on 13 November 2023 and concluding on 12 January 2024  
< Unavailable online in S2 2023

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

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 <sup>*§</sup>	1	1				1,2		Enrolment is not permitted in ENM1500 if MAT1100 or MAT1102 or ENM1600 or ENG1500 has been previously completed	
GIS1402 Geographic Information Systems <sup>£</sup>	1	1				1,3			
SVY1102 Surveying A	1	1				1			
ENG1003 Problem Solving in Engineering and the Built Environment <sup>&lt;</sup>	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	

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		
								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) <sup>^^</sup>	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) <sup>^^</sup>						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 2								
SVY2902 Surveying and Spatial Science Practice 2 <sup>£</sup>	2	1	3	3			M	Pre-requisite: SVY1901 and SVY1104 and SVY1110 and GIS1401
SVY2903 Surveying and Spatial Science Practice 3 <sup>£</sup>	2	2	4	3			M	Pre-requisite: SVY1901 and SVY2301 and (SVY3304 or SVY3306)
Approved Courses (Select from the following)								
SVY3304 Cadastral Surveying (Queensland) <sup>**</sup>	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) <sup>**</sup>						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: ENM1500 or ENM1600 or Students must be enrolled in one of the following Programs: GCST or GDST or GCEN or GEPR
SVY3107 Geodetic Surveying B		2				2		Pre-requisite: SVY1110 and SVY2105 or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MSPT

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		
<a href="#">URP2002 Local Government Planning Practice and Technology</a>		2				2		
<a href="#">ENV2201 Land Studies</a>		1				1		
<a href="#">ENM1600 Engineering Mathematics</a>		1				1,2		Enrolment is not permitted in <a href="#">ENM1600</a> if <a href="#">MAT1102</a> or <a href="#">MAT1502</a> has been previously completed
<a href="#">REN1201 Environmental Studies</a>		1				1		Enrolment is not permitted in <a href="#">REN1201</a> if <a href="#">REN8101</a> has been previously completed.
<a href="#">SVY3302 Property Valuation and Development</a>		2				2		
<a href="#">URP1001 Introduction to Urban and Regional Planning</a>		1				1		
<a href="#">URP3201 Sustainable Urban Design and Development</a>		2				2		
<a href="#">GIS2405 Spatial Analysis and Modelling</a>		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](#).
- § Unavailable online in S3 2023
- £ In Semester 3, 2023 this course will be delivered as a Transition (9 week) semester, commencing on 13 November 2023 and concluding on 12 January 2024
- < Unavailable online in S2 2023
- ^^ 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)

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 <sup>*§</sup>	1	1				1,2		Enrolment is not permitted in ENM1500 if MAT1100 or MAT1102 or ENM1600 or ENG1500 has been previously completed	
GIS1402 Geographic Information Systems <sup>£</sup>	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			

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 <sup>&lt;</sup>	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 Programs: 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) <sup>^^</sup>	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) <sup>^^</sup>						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 3 or 4								
SVY2902 Surveying and Spatial Science Practice 2 <sup>£</sup>	3	1		3			M	Pre-requisite: SVY1901 and SVY1104 and SVY1110 and GIS1401
SVY2903 Surveying and Spatial Science Practice 3 <sup>£</sup>	4	2		3			M	Pre-requisite: SVY1901 and SVY2301 and (SVY3304 or SVY3306)
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: ENM1500 or ENM1600 or Students must be enrolled in one of the following Programs: GCST or GDST or GCEN or GEPR
SVY3107 Geodetic Surveying B		2				2		Pre-requisite: SVY1110 and SVY2105 or Students must be enrolled in one of the following Programs: GCNS or GCST or GDNS or GDST or MSST or MSPT
URP2002 Local Government Planning Practice and Technology		2				2		
ENV2201 Land Studies		1				1		
ENM1600 Engineering Mathematics		1				1,2		Enrolment is not permitted in ENM1600 if MAT1102 or MAT1502 has been previously completed
REN1201 Environmental Studies		1				1		Enrolment is not permitted in REN1201 if REN8101 has been previously completed.
SVY3302 Property Valuation and Development		2				2		
URP1001 Introduction to Urban and Regional Planning		1				1		
URP3201 Sustainable Urban Design and Development		2				2		
GIS2405 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.
- § Unavailable online in S3 2023
- £ In Semester 3, 2023 this course will be delivered as a Transition (9 week) semester, commencing on 13 November 2023 and concluding on 12 January 2024
- < Unavailable online in S2 2023
- ^^ 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

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 <sup>£</sup>	1	1				1,3			
URP1001 Introduction to Urban and Regional Planning	1	1				1			
ENG1003 Problem Solving in Engineering and the Built Environment <sup>&lt;</sup>	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			
LAW1501 Business Law and Ethics	1	2				2		Enrolment is not permitted in LAW1501 if LAW1500 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		
Academic Courses Year 2									
Year 2, Semester 1									
ENV2201 Land Studies	2	1				1			
PRL2002 Community Consultation and Engagement	2	1				1			
URP2001 Planning Structures and Statutory Planning	2	1				1			
CMG1001 Introduction to Construction Management and the Built Environment <sup>#</sup>	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 <sup>£</sup>			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)	

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			
Approved Courses (Select from the following)									
ACC1201 Data Insights and Financial Performance <sup>£</sup>		1,2				1,2		Enrolment is not permitted in ACC1201 if ACC1101 has been previously completed.	
ECO1002 Market Behaviour		2				2		Enrolment is not permitted in ECO1002 if ECO1000 has been previously completed	
MGT1101 Human Capabilities for Business <sup>£</sup>		1				1,2,3		Enrolment is not permitted in MGT1101 if MGT1000 has been previously completed.	
CLI3301 Climate and Environment Risk Assessment						1			
SVY3202 Photogrammetry and Remote Sensing		1				1			
GIS2405 Spatial Analysis and Modelling		2				2			
GIS2407 Web Based Geographic Information System		2				2		Pre-requisite: GIS1402 or S 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 <sup>**</sup>						2		Pre-requisite: LAW1501 or LAW1101 or LAW1500 or ENG2002 or REN1201 or (Students enrolled in BEDU (Legal Studies) or BLAW or LLBP or BALW or BCLW or BZLW - Pre-requisite: LAW1111)	
SVY3302 Property Valuation and Development		2				2			
URP3201 Sustainable Urban Design and Development		2				2			

#### Footnotes

- £ In Semester 3, 2023 this course will be delivered as a Transition (9 week) semester, commencing on 13 November 2023 and concluding on 12 January 2024
- < Unavailable online in S2 2023
- # On-campus offer available at Springfield only
- \*\* Course is offered in the interim trimester layer, please consult for interim trimester dates.

## Urban and Regional Planning major recommended part-time 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 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 <sup>£</sup>	1	1				1,3			

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		
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 <sup>&lt;</sup>	2	1				1		
Year 2, Semester 2								
LAW1501 Business Law and Ethics	2	2				2		Enrolment is not permitted in LAW1501 if LAW1500 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 Engagement	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		
CMG1001 Introduction to Construction Management and the Built Environment <sup>#</sup>	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 <sup>£</sup>	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)								
ACC1201 Data Insights and Financial Performance <sup>£</sup>		1,2				1,2		Enrolment is not permitted in ACC1201 if ACC1101 has been previously completed.
ECO1002 Market Behaviour		2				2		Enrolment is not permitted in ECO1002 if ECO1000 has been previously completed

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		
MGT1101 Human Capabilities for Business <sup>£</sup>		1				1,2,3		Enrolment is not permitted in <a href="#">MGT1101</a> if MGT1000 has been previously completed.
CLI3301 Climate and Environment Risk Assessment						1		
SVY3202 Photogrammetry and Remote Sensing		1				1		
GIS2405 Spatial Analysis and Modelling		2				2		
GIS2407 Web Based Geographic Information System		2				2		Pre-requisite: <a href="#">GIS1402</a> 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
LAW2107 Environmental Law <sup>**</sup>						2		Pre-requisite: <a href="#">LAW1501</a> or LAW1101 or LAW1500 or <a href="#">ENG2002</a> or <a href="#">REN1201</a> or (Students enrolled in BEDU (Legal Studies) or BLAW or LLBP or BALW or BCLW or BZLW - Pre-requisite: <a href="#">LAW1111</a> )
SVY3302 Property Valuation and Development		2				2		
URP3201 Sustainable Urban Design and Development		2				2		

#### Footnotes

- £ In Semester 3, 2023 this course will be delivered as a Transition (9 week) semester, commencing on 13 November 2023 and concluding on 12 January 2024
- < Unavailable online in S2 2023
- # On-campus offer available at Springfield only
- \*\* Course is offered in the interim trimester layer, please consult for interim trimester dates.