Bachelor of Surveying Technology (BSST) - BSpScTech

QTAC code (Australian and New Zealand applicants): Toowoomba campus: 907801; External: 907805; Springfield campus: 927801

CRICOS code (International applicants): 053512D

Program aims

The Bachelor of Spatial Science Technology program equips students with a core of basic technical, scientific, analytical, business administration and communication skills that will permit them to undertake further study of the science and practice of spatial science in one of two fields: Geographic Information Systems (GIS) or Surveying. The program provides students with sufficient knowledge of surveying, spatial information systems or urban and regional planning to be eligible to gain employment, certification and, where appropriate, registration as a Graduate Surveyor or GIS Spatial Scientist.

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.

Program objectives

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

- broad and coherent knowledge in the theories, concepts, methods and technologies in the areas of surveying and spatial science
- skills and knowledge of the analysis and evaluation of appropriate technologies, methods and processes to solve and complete a range of surveying and spatial science activities
- well-developed technical and cognitive skills to create innovative and sustainable solutions utilising cutting-edge technologies, supported by research to collect, store and manipulate spatial data
- knowledge and skills to autonomously apply well-informed judgements regarding specialised practices, theories and processes in their domain of knowledge
- well-developed communication skills to transmit and convey the necessary information and ideas to relevant stakeholders
- consistent application of academic norms and ethical standards in decision making when working collaboratively in a professional capacity
- knowledge of surveying or spatial information systems to sufficient depth to be eligible for employment, certification and, where appropriate, registration as a Graduate Surveyor or GIS Spatial Scientist.

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 07. Graduates at this level will have broad and coherent knowledge and skills for professional 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 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 **65.6**, or equivalent qualification.^

- Subject Pre-requisites: English (Units 3 & 4, C) and Mathematical Methods (Units 3 & 4, C) or equivalent.

- English Language Proficiency requirements for Category 2.

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 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 Bachelor of Spatial Science Technology is a 24-unit program comprising Academic Courses plus Practice Courses.

Academic courses are one-unit courses and involve approximately 155 hours of student workload per unit.

Practice courses are zero-unit courses and each involves approximately 50 hours of student workload.

Required time limits

Students have a maximum of 8 years to complete this program.

Electives/Approved courses

Approved courses are part of the Academic program and students should select approved courses from a specified list of approved courses.

Practical experience

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

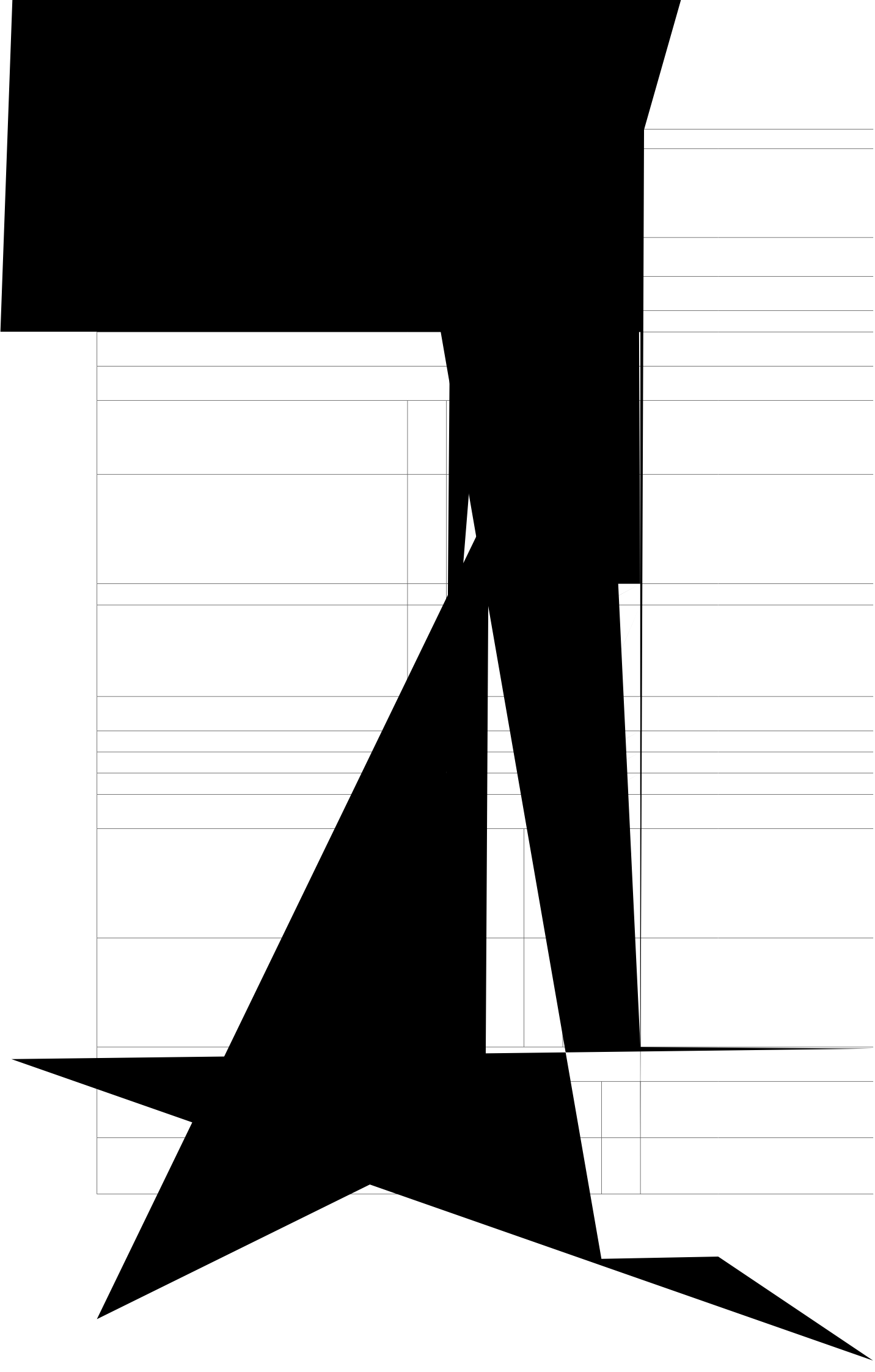
IT requirements

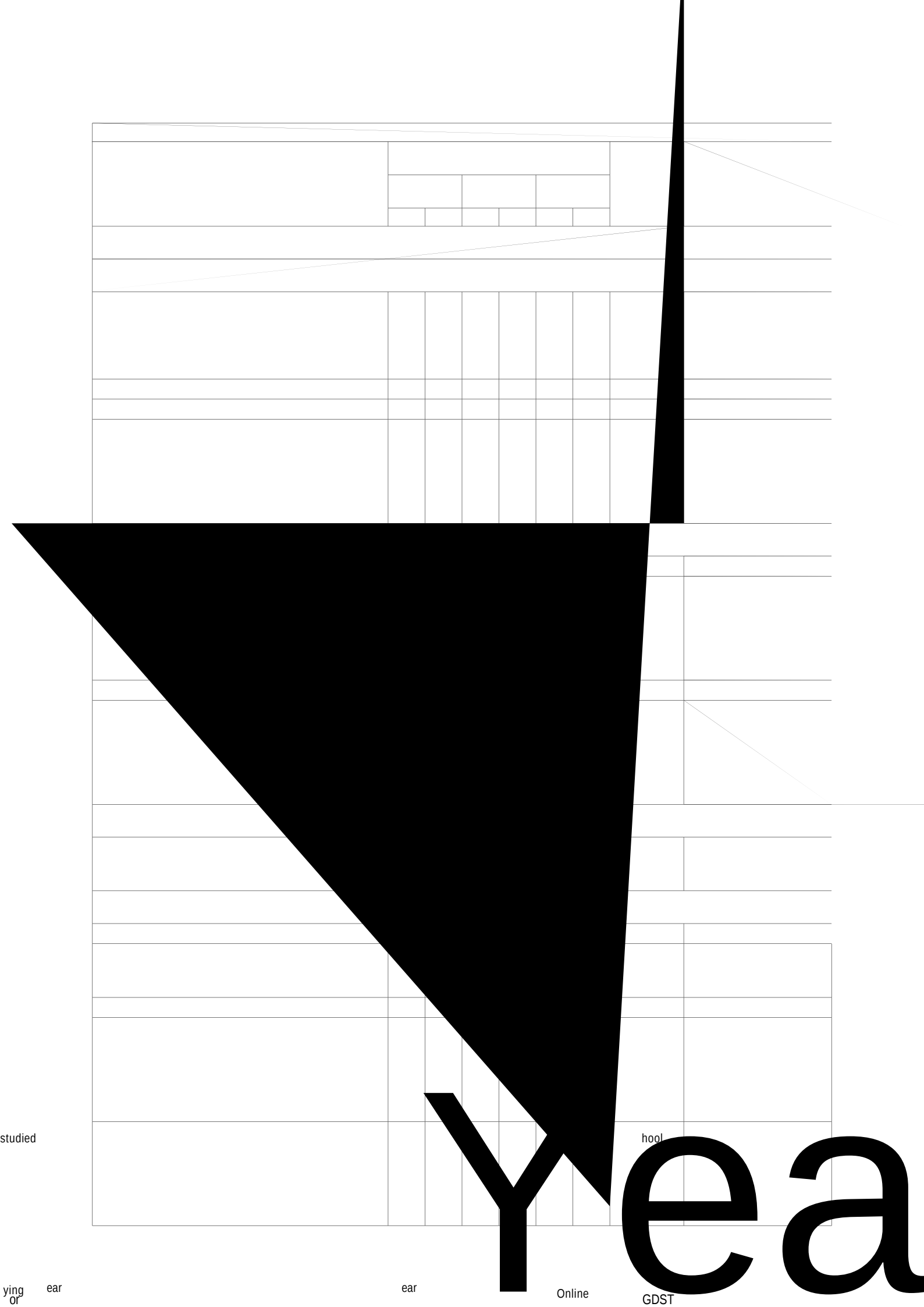
For information technology requirements, please refer to the minimum computing standards.

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 Polic

Major study: Geographic Information Systems (Major Study Code: 15405)								
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		
SVY3202 Photogrammetry and Remote Sensing	3	1				1		
Approved Course (Select from the Approved Course list)	3	1				1		
CSC3400 Database Systems[£]	3	1				1,3		Pre-requisite: CSC1401 or CIS1000 Enrolment is not permitted in CSC3400 if CIS2002 has been previously completed.
Year 3, Semester 2								
GIS3008 Applications of GIS and Remote Sensing	3	2				2		Pre-requisite: GIS1402 and GIS3406 or Students must be enrolled in one of the fol lowing Programs: GCST or GDST or MSPT
GIS2405 Spatial Analysis and Modelling	3	2				2		
GIS2407 Web Based Geographic Information System	3	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
Approved Course (Select from the Approved Course list)	3	2				2		
Approved Courses (Select 3 courses from the following)								
CSC2406 Web Technology 1		2				2		Pre-requisite: CSC1401 or Students must be enrolled in one of the following Program s: UCCC or GDTI or GCEN or METC or MCOT or

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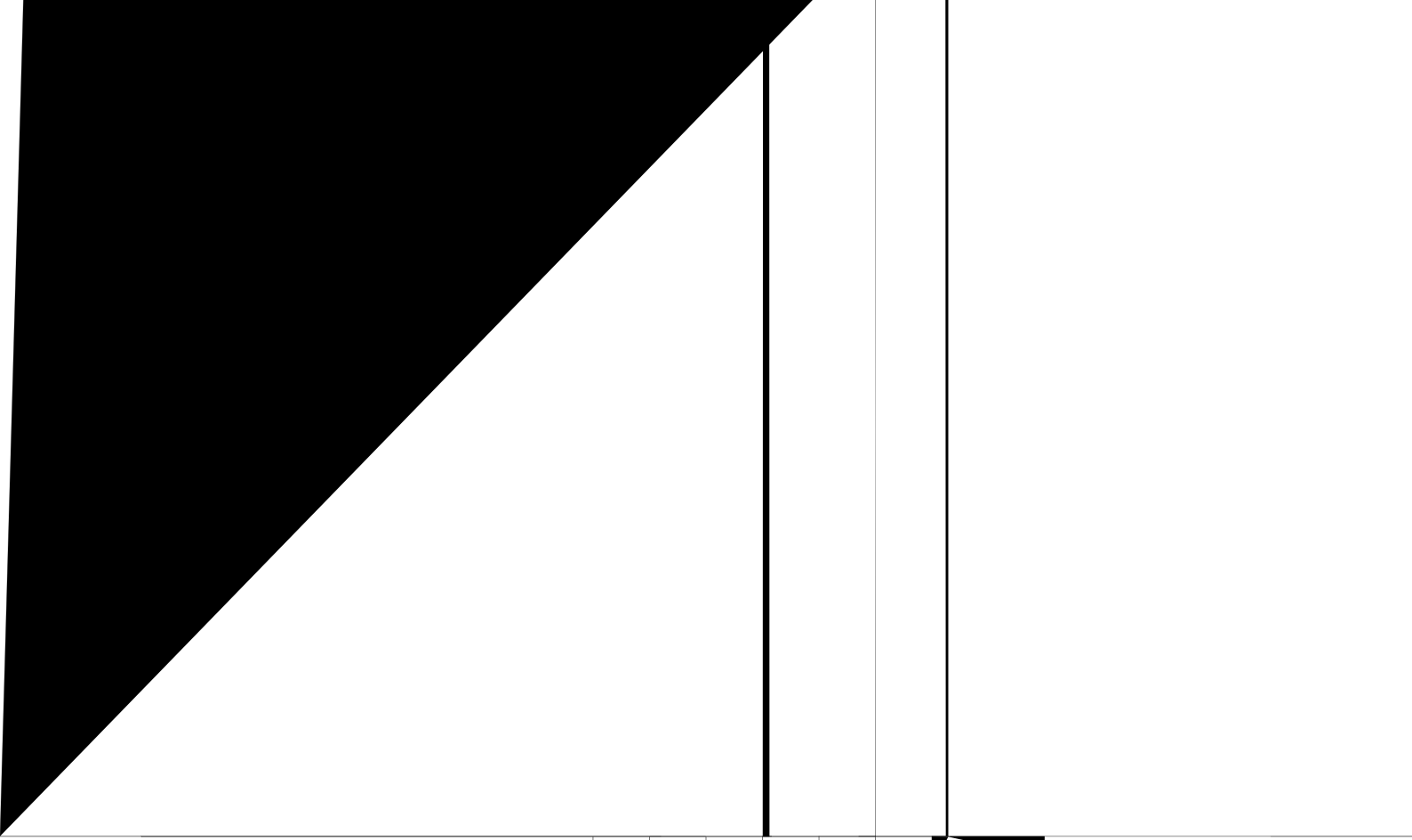

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