

Graduate Certificate of Science (GCSC) - GradCertSci

CRICOS code (International applicants): 069701A

This program is at AQF Qualification Level 08. Graduates at this level will have advanced knowledge and skills for professional or 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.

Admission requirements

To be eligible for admission, applicants must satisfy the following requirements:

- Completion of an Australian university three year Bachelor degree in any area, or equivalent.
Or
equivalent professional work experience, as determined through the [Credit and Exemption Procedure](#).
- English Language Proficiency requirements for Category 3.

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.

Program fees

Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of a student's 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

All specialisations within the program consist of four units of study taken from the Recommended Enrolment Pattern section. The Faculty of Health, Engineering and Sciences also may grant substitution of one course from outside these disciplines. At least two courses must be Level 8 (all specialisations). The student must select courses according to the pre- and co-requisite requirements contained in individual course specifications. Some courses may include a compulsory residential school.

| Discipline Area | Modes of Offer/Residential School Requirements for EXT Courses |
|----------------------------|---|
| Agricultural Science (AGR) | Some courses available with a compulsory residential school on-campus |

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| Applied Climate Science (CLI) | Available online only — no residential school requirement |
| Applied Data Science (DAT) | Available in both modes — no residential school requirement |
| Astronomy (PHY) | Available online only – no residential school requirement |
| Biology (BIO) | Some courses available on-campus, some courses available in both modes – some courses have compulsory residential schools |
| Chemistry (CHE) | Some courses available on-campus, some courses available in both modes – some courses have compulsory residential schools |
| Computing (CSC) | Available in both modes — no residential school requirement |
| Environment and Sustainability (REN/CLI) | Available in both modes — no residential school requirement |
| Mathematics (MAT) | Available in both modes – no residential school requirement |
| Mathematics for High School Teaching (MAT) | Available in both modes – no residential school requirement |
| Mathematics for Primary/Middle School Teaching (MAT) | Available in both modes – no residential school requirement |
| Physics (PHY) | Available online only – no residential school requirement |
| Science for Primary/Middle School Teaching | Some courses available with a compulsory residential school on-campus |
| Statistics (STA/MAT) | Available in both modes — no residential school requirement |
| Wine Science (WIN) | Some courses available with a compulsory residential school on-campus. |

Those teachers studying who are relying on government scholarships or are seeking accreditation in a particular state, are advised to check with their funding agency or Education Authority that they are enrolled in an appropriate approved combination of courses. For further advice on these and other possible course combinations please contact the Faculty of Health, Engineering and Sciences.

Required time limits

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

IT requirements

Students should visit the USQ [minimum computing standards](#) to check that their computers are capable of running the appropriate software and versions of Internet web browsers and to check the minimum and recommended standards for software.

Students will need internet access to retrieve course materials, undertake assessment and participate in course online activities.

Articulation

Graduate Certificate of Science students may articulate to the [GDSI Graduate Diploma of Science](#) program with further completion of four courses, as required by that program.

Students must advise the Faculty in writing (usq.support@usq.edu.au) of their intention to articulate and this must occur prior to graduation from the GCSC. If a student is articulating to the higher degree, they will apply to that higher degree and will only graduate from that higher degree.

Credit

Exemptions/credit will be assessed based on the [USQ Credit and Exemption Procedure](#).

Applied Data Science specialisation: Students who have completed [STA2300 Data Analysis](#) in their Bachelor degree may replace STA2300 with another STA level 2 or above course. Students who have completed [CSC1401 Foundation Programming](#) in their Bachelor degree may replace CSC1401 with another CSC course.

Enrolment

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| Choose any two of the following: | | | | | | | |
| MAT3105 Harmony of Partial Differential Equations ^ | | 1 | | | | 1 | Pre-requisite: ENM2600 or MAT2100 or MAT2500 |
| MAT3103 Mathematical Modelling and Dynamical Systems ^ | | 2 | | | | 2 | Pre-requisite: MAT2100 or MAT2500 or ENM2600 |
| MAT3104 Mathematical Modelling in Financial Economics * | | 2 | | | | 2 | Pre-requisite: (MAT2100 and STA2300) or (MAT2500 and STA2300) or (ENM2600 and STA2300) or Students must be enrolled in the following Program: MSBN |
| MAT3201 Operations Research 2 * | | 1 | | | | 1 | Pre-requisite: MAT1200 or USQIT16 |
| MAT2409 High Performance Numerical Computing | | 1 | | | | 1 | Pre-requisite: CSC1401 and (MAT1102 or ENM1600) or Students must be enrolled in one of the following Programs: MPIT or M COT or MCTE |
| SCI3302 Industry Placement | | 1,2,3 | | 1,2,3 | | | Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area) |
| MAT1200 Operations Research 1 | | 2 | | | | 2 | |

Mathematics for Primary/Middle School T
