

Bachelor of Science or Bachelor of Science (Psychology) (BSClorBSCP) - BSc or BSci(Psychology)

QTAC code (Australian and New Zealand applicants): Mathematics & Statistics (Toowoomba campus: 906351; External: 906355); Wine Science (Toowoomba campus: 906115); Plant Agricultural Science (Toowoomba campus: 906991; External: 906995); Food Science (Toowoomba campus: 906981; External: 906985); Wildlife Management (Toowoomba campus: 907431; External: 907435); Information Technology (Toowoomba campus: 906791; External: 906795); Mathematics (Toowoomba campus: 906881; Online: 906885); Statistics (Toowoomba campus: 906201; External: 906205; Ipswich campus: 936201); Biology (Toowoomba campus: 906831; External: 906835); Environment & Sustainability (Toowoomba campus: 906261; External: 906265); Computing (Toowoomba campus: 906761; External: 906765); Physical Sciences (External: 906125); Astronomical & Space Sciences (External: 906665); Human Physiology (Toowoomba campus: 906821; External: 906825); Counselling (Toowoomba campus: 906551; External: 906555; Ipswich campus: 936551); Animal Science (Toowoomba campus: 906771; External: 906775)

CRICOS code (International applicants): 042230E

	On-campus**#^~&@^^	External*	Online†
Start:	Semester 1 (February) Semester 2 (July) Semester 3 (November)	Semester 1 (February) Semester 2 (July) Semester 3 (November)	Semester 1 (February) Semester 2 (July) Semester 3 (November)
Campus:	Ipswich, 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	Commonwealth supported place Domestic full fee paying place International full fee paying place
Residential school:		Toowoomba, Ipswich	
Standard duration:	3 years full-time, 6 years part-time, 9 years maximum		

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

- ** Information Technology major is available at UniSQ Toowoomba and Online. This major is available to international students residing off-campus in Australia or for international students studying overseas.
- # The BSCP —Psychology Extended major (16 units) is only available on campus at UniSQ Ipswich for a Semester 1 entry. Students can complete this extended major at other campuses through a mixture of on-campus and online courses. The BSCP Psychology major (12 units) is offered on campus at UniSQ Ipswich and Toowoomba and online.
- ^ Psychology and Psychology Extended are the only majors available at UniSQ Ipswich. Both majors are also offered at UniSQ Toowoomba. Psychology Extended major is also offered externally.
- ~ Mathematics and Statistics Extended, Computing, Geospatial Science, Mathematics and Statistics (8-unit), Environment and Sustainability majors are available at UniSQ Toowoomba and externally. These majors are available to international on-campus students as long as the student meets the on-campus requirement through minor/elective/2nd major courses. All majors are available to international students residing off-campus in Australia. These majors are unsuitable for international students studying overseas.
- & Wildlife Management, Biology, Food Science, Human Physiology, Plant Agricultural Science, Animal Science majors are available at UniSQ Toowoomba and externally, with residential schools held at UniSQ Toowoomba or off-site. These majors are available to international on-campus students as long as the student meets the on-campus requirement through minor/elective/2nd major courses. These majors are available to international students residing off-campus in Australia, however, there are attendance requirements at multiple residential schools held at UniSQ Toowoomba throughout the duration of the program. These majors are unsuitable for international students studying overseas.
- @ Not all majors are available to commence in Semester 3 at UniSQ Toowoomba.
- ^^ Please refer to the Program Structure for further information on the intakes available for each major and their appropriateness for International On-Campus Students.
- * Astronomical and Space Sciences, Physics and Wine Science majors are only offered by external mode. All majors are available to international students residing off-campus in Australia, however, there are attendance requirements at multiple residential schools held at UniSQ Toowoomba

throughout the duration of the programs. The residential schools for the Wine Science majors are held off-site at Stanthorpe. These majors are unsuitable for international students studying overseas.

† Psychology and Information Technology majors are the only majors offered Online.

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: study@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 Information Technology major of this program is accredited at professional level by the [Australian Computer Society](#) and, through the Seoul Accord, is recognised in other countries.

The Bachelor of Science (Psychology and Psychology Extended) (BSCP) majors are fully accredited by the [Australian Psychology Accreditation Council](#) as providing the first three years of the necessary requirements for full registration as a psychologist.

Program aims

Program Rules

Students are required to:

- Satisfactorily complete 24 credit points (total units) as listed in the program structure in order to graduate from the program. At least four units will be at level 3 and 16 units will be approved Science courses;
- Complete the courses in the program satisfactorily within 9 years of commencement of the program;
- Maintain satisfactory academic achievement throughout the duration of the program, consistent with the UniSQ Student Academic Progress Procedure
- Meet all mandatory residential school requirements where present in a course.
- Meet the [Inherent Requirements](#) for the relevant major.

Program objectives

On completion of this program students should be able to:

- Exhibit a broad and coherent knowledge base, with a level of depth in one or more science disciplines, suitable to undertake professional work and/or further study.
- Apply a range of cognitive and technical skills which reflect the underlying principles of one or more science disciplines.
- Display well developed cognitive, technical and communication skills to select and apply relevant methods and technologies and present information to a range of audiences.
- Critically analyse, consolidate and evaluate information to construct and implement solutions to unpredictable and complex problems.
- Work autonomously and collaboratively to construct and implement problem solving paradigms to address relevant issues.
- Apply well directed judgement and responsibility, in diverse contexts, which are consistent with the social, moral and legal responsibilities of professional scientists.

Admission requirements

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

- The specified minimum entry requirement as determined by Australian Tertiary Admission Rank (ATAR), or equivalent qualification.[^]
- English Language Proficiency requirements for Category 2.

Additional pre-requisites and recommended prior study for individual majors

Animal Science (8 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.

Astronomical and Space Sciences (12 unit major)

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

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended prior study: One of Biology, Chemistry or Physics or equivalent.

Biology (8 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended prior study: Mathematical Methods and one of Biology, Chemistry or Physics or equivalent.
If students do not have the recommended Mathematical Methods Level for entry then they will be required to undertake [MAT1000 Mathematics Fundamentals](#) as an elective.

Computing (8 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended prior study: Mathematical Methods* or equivalent.

* UniSQ College has courses available via [Tertiary Preparation Program](#) which will allow students to up-skill in Mathematics prior to entry.

Environment and Sustainability (8 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended prior study: Mathematical Methods and one of Biology, Chemistry or Physics or equivalent.
If students do not have the recommended Mathematical Methods Level for entry then they will be required to undertake [MAT1000 Mathematics Fundamentals](#) as an elective.

Food Science (8 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.

- Recommended prior study: Mathematical Methods and one of Biology, Chemistry or Physics or equivalent. If students do not have the recommended Mathematical Methods Level for entry then they will be required to undertake [MAT1000 Mathematics Fundamentals](#) as an elective.

Geospatial Science (8 unit major)

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

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended: Biology, Chemistry, Physics or Equivalent (3 & 4, C)

Human Physiology (8 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended prior study: Mathematical Methods and one of Biology, Chemistry or Physics or equivalent. If students do not have the recommended Mathematical Methods Level for entry then they will be required to undertake [MAT1000 Mathematics Fundamentals](#) as an elective.

Information Technology (12 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended Prior Study: Mathematical Methods * or equivalent.

* UniSQ College has courses available via [Tertiary Preparation Program](#) which will allow students to up-skill in Mathematics prior to entry.

Mathematics and Statistics (8 unit major)

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

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.

Mathematics and Statistics Extended (12 unit major)

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

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.

Physics (8 unit major)

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

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended prior study: One of Biology, Chemistry or Physics or equivalent.

Plant Agricultural Science (8 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.

- Recommended Prior Study: Mathematical Methods and one of Biology, Chemistry or Physics or equivalent. If students do not have the recommended Mathematical Methods Level for entry then they will be required to undertake [MAT1000 Mathematics Fundamentals](#) as an elective.

BSCP - Psychology (12 unit major)

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English; General Mathematics or equivalent.

BSCP - Psychology Extended (16 unit major)

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English; General Mathematics or equivalent.

Wildlife Management (8 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended prior study: Mathematical Methods and one of Biology, Chemistry or Physics or equivalent. If students do not have the recommended Mathematical Methods Level for entry then they will be required to undertake [MAT1000 Mathematics Fundamentals](#) as an elective.

Wine Science (8 unit major)

Subject Pre-requisite: General Mathematics (Units 3 & 4, C) or equivalent.

Applicants are advised to also address the following:

- [Assumed knowledge](#) expectations: English.
- Recommended prior study: Mathematical Methods and one of Biology, Chemistry or Physics or equivalent. If students do not have the recommended Mathematical Methods Level for entry then they will be required to undertake [MAT1000 Mathematics Fundamentals](#) as an elective.

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.

Requirements for professional experience placements

Practical experience is an integral component of the Wildlife Management major and each student is required to undertake and satisfactorily complete 105 hours of practical experience.

Progression into practical courses is dependent upon a pass grade in theoretical and other practical courses which have been set as prerequisites.

Applicants must be willing to undertake and submit the University of Southern Queensland requirements for practical placement.

Please refer to the applicable Professional Placement Handbook for Wildlife Management students.

Mandatory documents required prior to commencing industry placement:

- Resume
- UniSQ Student Declaration
- UniSQ Placement Request Form
- Vaccinations for Q fever, Tetanus and Hepatitis B

Requirements for Work-Integrated-Learning courses

Practical experience is an integral component of the Bachelor of Science and each student is required to undertake and satisfactorily complete 15-30 days of practical experience (depending on major).

In order to enrol in [SCI3302 Work-Integrated-Learning](#), students must have completed the equivalent of the first two years of study in the program successfully.

Applicants must be willing to undertake and submit the University of Southern Queensland requirements for practical placement.

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

Major	On-campus Toowoomba Intake			On-campus Ipswich Intake			External Intake			Online Intake		
	S1	S2	S3	S1	S2	S3	S1	S2	S3	S1	S2	S3
BSCP - Psychology Extended (16-unit major)	Yes *	Yes *	Yes *	Yes *	Yes *	Yes *	Yes	Yes	Yes			

Maths and Statistics Extended (12-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Maths and Statistics (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Information Technology (12-unit major)	Yes *	Yes *	Yes *							Yes	Yes	Yes
Computing (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Astronomy and Space Sciences (12-unit major)							Yes	Yes	Yes			
Physics (8-unit major)							Yes	Yes	Yes			
BSCP - Psychology (12-unit major)	Yes *	Yes *	Yes *	Yes *	Yes *	Yes *				Yes	Yes	Yes
Animal Science (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Biology (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Environment and Sustainability (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Food Science (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			

Geospatial Science (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Human Physiology (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Plant Agricultural Science (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Wildlife Management (8-unit major)	Yes *	Yes *	Yes *				Yes	Yes	Yes			
Wine Science (8-unit major)							Yes	Yes	Yes			

Footnotes

* This major and intake is available to International On-Campus Students.

The Bachelor of Science consists of 24 units comprising 4 core unit courses, with a primary major of minimum 8 units, and 12 units of approved student selected courses.

At least four courses in the program will be at level 3. Each major will require a minimum number of level 3 courses (coded 3000) to meet the depth requirements of the major. Where two majors are chosen which have some compulsory courses in common, the overlap will be made up by taking extra major approved courses defined in those majors.

Area of Study	Number of Units
Option 1	
Core Courses	4 units
8–unit primary major:	8 units
<ul style="list-style-type: none"> • Animal Science • Biology • Computing • Environment and Sustainability • Food Science • Geospatial Science • Human Physiology • Mathematics and Statistics • Physics • Plant Agricultural Science • Wine Science • Wildlife Management 	

Plus one of the following options: <ul style="list-style-type: none"> • 8-unit secondary major + 4 electives; or • 2 x 4-unit discipline minors + 4 electives; or • 1 x 4-unit discipline minor and 1 x 4-unit University minor + 4 electives; or • 1 x 4-unit discipline minor and 4 x electives + 4 electives; or • 12 approved electives. 	12 units
OR	
Option 2	
Core Courses	4 units
12-unit extended major <ul style="list-style-type: none"> • Astronomical and Space Sciences • Mathematics and Statistics Extended • Information Technology Or 12-unit standalone major <ul style="list-style-type: none"> • Psychology 	12 units
Plus one of the following options: <ul style="list-style-type: none"> • 8-unit secondary major; or* • 2 x 4-unit discipline minors; or • 1 x 4-unit discipline minor and 1 x 4-unit University minor; or • 1 x 4-unit discipline minor and 4 x electives; or • 8 x electives <p>* Certain double major combinations may not be available. Refer to individual major requirements for further information.</p>	8 units
Or	
Option 3	
Core Courses	4 units
16 unit major <ul style="list-style-type: none"> • Psychology Extended 	16 units
Plus <ul style="list-style-type: none"> • 4 x electives 	4 units

Required time limits

Students have a maximum of 9 years to complete this program.

Core courses

All students must take the following core courses in the following recommended year and semester. Exceptions apply to the following externally accredited majors: Psychology, Psychology Extended and Information Technology.

The recommended enrolment pattern is for full-time students. Part-time students should aim to take the year 1 courses in their first year of enrolment, and should take the final year core course in their last year of study.

Course Name and Code	Semester(s) offered Toowoomba	Semester(s) offered Springfield	Semester(s) offered Ipswich	Semester(s) offered External	Semester(s) offered Online
CMS1100 Communicating in the Sciences	1				1,2
SCI1001 Succeeding in Science	1,2				1,2
STA1003 Fundamental Statistics [§]	1,2	2			1,2,3
SCI3302 Work-Integrated Learning	1,2,3			1,2,3	

Footnotes

§ Unavailable online in S3 2023

Core Course for Accredited Majors

The following accredited majors have the following Core course requirements:

Course Name and Code	Semester(s) offered Toowoomba	Semester(s) offered Springfield	Semester(s) offered Online
Information Technology			
CMS1100 Communicating in the Sciences	1		1,2
CSC1401 Foundation Programming [£]	1,2,3	1,2	1,2,3
STA1003 Fundamental Statistics [§]	1,2	2	1,2,3
MAT1101 Discrete Mathematics for Computing	1	1	1

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 S3 2023

Course Name and Code	Semester(s) offered Toowoomba	Semester(s) offered Springfield	Semester(s) offered Ipswich	Semester(s) offered Online
Psychology and Psychology Extended				

CMS1000 Communication and Scholarship (final offer Semester 1 2023) or HAC1000 The Skilful Communicator (first offer Semester 2 2023) [£]	2	2		2
SCI1001 Succeeding in Science	1,2,3	1,2		1,2,3
STA1003 Fundamental Statistics [§]	1,2	2		1,2,3
PSY1030 Cross-Cultural and Indigenous Psychology	1	1		1

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 S3 2023

Major studies

The following majors are available in the Bachelor of Science:

16-unit major (contain at least four Level 3 courses)

- BSCP - Psychology Extended

12-unit majors/extended major (contain at least three Level 3 courses - identified by a 3000 code)

- Astronomical and Space Sciences
- Information Technology
- Mathematics & Statistics Extended
- BSCP - Psychology

8-unit majors (contain at least two Level 3 courses - identified by a 3000 code)

- Animal Science
- Biology
- Computing
- Environment and Sustainability
- Food Science
- Geospatial Science
- Human Physiology
- Mathematics and Statistics
- Physics
- Plant Agricultural Science
- Wildlife Management
- Wine Science

BSCP - Psychology Extended (16-unit major)

Psychology Extended major objectives

The Bachelor of Science (Psychology Extended) (BSCP) program aims to produce graduates who have advanced knowledge and skills in psychology. Participation in the capstone experience will provide students with the acquired ability to research independently, apply theory and develop academic expertise in their chosen focus of area in psychology. The Program will extend student's appreciation of the contributions made by psychologists to society.

Many people who study psychology will not go on to become psychologists, but will find their training in psychology to be highly relevant and useful in their lives and work. Those who do become psychologists may work in a variety of settings including hospitals, schools, government bodies, large corporations, or in private practice. The BSCP - Psychology Extended major will provide students with a broader knowledge of psychology-related knowledge and skills, which more than satisfy the minimum requirements for affiliate membership of relevant professional bodies, most notably the Australian Psychological Society.

Graduates who have completed the Extended major in Psychology (BSCP) will be able to:

- apply knowledge of the breadth and depth of the major fields in contemporary Psychology to describe and explain human behaviour in multiple contexts:
- systematically apply this knowledge in specific contexts such as mental health (clinical psychology), the workplace (organisational psychology), legal settings (law and psychology), education or sport psychology.
- conduct research and report the findings to lay persons and the scientific community at large
- prepare and develop a portfolio, which documents learning of identified outcomes and reflections of metacognitive processes
- develop a broad range of skills, which are suited to occupations requiring the study or application of behavioural science in both the public and private sector

BSCP - Psychology Extended Major Courses

This is a 16-unit extended major. Along with the Foundation Studies courses prescribed above, students must take the following 16 units of courses:

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered Ipswich	Semester(s) Offered External	Semester(s) Offered Online
PSY1010 Foundation Psychology A	1	1		1,3
PSY1020 Foundation Psychology B	2	2		1,2
PSY2010 Social Processes of Behaviour	1	1		1
PSY2020 Motivation and Emotion	1	1		1
PSY2030 Developmental Psychology	2	2		2
PSY2040 Human Information Processing	2	2		2
PSY2100 Research Methods in Psychology A	1	1		1
PSY3010 Assessment of Behaviour	1	1		1
PSY3030 Abnormal Psychology	1	1		1
PSY3050 Counselling Psychology^{\$}	2	2		2
PSY3060 Learning and Behaviour Change	1	1		1
PSY3111 Research Methods in Psychology B^{^^}	2	2		2
PSY3180 Practicum A			1	
PSY3190 Practicum B			2	

Two third-year level courses from the below list of psychology approved courses				
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Footnotes

\$ Not available ONC Toowoomba in S2 2023

^^ Not available ONC Toowoomba or ONC Ipswich in S2 2023

To complete the award, students taking a 16-unit extended major must additionally undertake one of the following choices:

- 4 units of general elective courses; these can be selected from the list of psychology approved courses, or from any discipline, and may be at any year level, or
- one 4-unit minor.

Minor studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

General electives can be selected from the table of psychology approved courses below or from any courses at Levels 1, 2 and 3 offered by UniSQ subject to satisfaction of pre-requisite requirements, timetabling constraints, quotas, and program requirements. Please note that Diploma of Science Foundation core courses are not permitted as electives.

Unsuitable electives

For various reasons, the following courses will not be approved as electives for students majoring in Psychology in the Bachelor of Science (BSCP) program:

[DIP1002 Strategies for Successful Study](#), [DIP1003 Essential Mathematics](#) and [DIP1004 Mathematical Literacy](#).

Psychology Extended (BSCP) approved elective courses

Courses	Semester(s) Offered Online
PSY3110 Clinical Health Psychology	2
PSY3250 Sport and Exercise Psychology	2
PSY3730 Industrial and Organisational Psychology	1

Note: The psychology approved courses offered can change from year to year. For information about which psychology approved courses are being offered in any particular year, students are directed to the course specification site for that particular year. Students are responsible for ensuring that they do not enrol in, or continue to be enrolled in, courses for which they have not satisfied the enrolment requirements (e.g., the necessary pre-requisites).

The recommended enrolment patterns for students with no exemptions, and the enrolment requirements for courses in the extended major, is given in the table that follows. If students are granted exemptions from specific compulsory courses or from approved elective courses, they may need to modify the recommended enrolment pattern.

Mathematics and Statistics Extended (12-unit major)

Mathematics and Statistics Extended Major Objectives

Graduates who have completed the major in Mathematics and Statistics will be able to:

- understand fundamentals of mathematical analysis at the undergraduate level
- show a sound knowledge of important theories and techniques of applied mathematics, statistics and computing

- apply their knowledge to solve practical problems that they are likely to encounter in science, industry, business or government instrumentalities
- continue to develop their abilities through research, discussion and private study
- use computer packages to solve problems in statistics, mathematics and modelling
- communicate the results of mathematical/statistical analysis to wide variety of audiences
- satisfy the minimum requirements for graduate membership of relevant professional bodies.

Mathematics and Statistics Extended Major Courses

This is a 12-unit extended major. This major extends the Mathematics and Statistics (8 unit) major. Along with the Core courses prescribed above, students must take the 12 units of Mathematics and Statistics major courses. If students do not have Mathematical Methods prior to commencement, students should seek guidance from the Program Director.

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered Online
Mathematics and Statistics core major courses		
MAT1102 Algebra and Calculus I	1	1
STA2301 Distribution Theory	1	1
MAT2100 Algebra and Calculus II	2	2
STA2302 Statistical Inference	2	2
MAT2200 Operations Research 1	2	2
MAT2409 High Performance Numerical Computing[†]	1	1
STA3300 Experimental Design	1	1
STA3301 Statistical Models^{>}	2	2
MAT3201 Operations Research 2^{*†}	1	1
MAT3103 Mathematical Modelling and Dynamical Systems^{**}	2	2
MAT3105 Harmony of Partial Differential Equations^{**}	1	1
STA3200 Multivariate Statistical Methods		1

Footnotes

[†] Unavailable on-campus at Toowoomba in S1 2023

[>] Unavailable Semester 2, 2023 Toowoomba On-campus

^{*} The on-campus offering of this course is offered in odd years only.

^{**} The on-campus offering of this course is offered in even years only.

Note: Students who are enrolled in the 12-unit Mathematics and Statistics Extended major cannot also enrol in the 8-unit Mathematics and Statistics major.

Electives

The following courses are recommended electives for this major:

- [CSC1401 Foundation Programming[£]](#)
- [MAT1101 Discrete Mathematics for Computing](#)

[£] 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

Unsuitable electives

Students will require the approval of the Faculty of Health, Engineering and Sciences if they wish to include [MAT1000 Mathematics Fundamentals](#), [MAT1100 Foundation Mathematics](#) and [ENM1500 Introductory Engineering Mathematics](#), as electives towards the Bachelor of Science program majoring in Mathematics and Statistics Extended.

Mathematics and Statistics (8-unit major)

Mathematics and Statistics Major Objectives

Graduates who have completed the major in Mathematics and Statistics will be able to:

- understand fundamentals of mathematical and statistical analysis at the undergraduate level;
- show a sound knowledge of important theories and techniques of applied mathematics and statistics;
- apply their knowledge to solve practical problems that they are likely to encounter in science, industry, business or government instrumentalities;
- continue to develop their abilities through research, discussion and private study;
- use computer packages to solve and analyse mathematical and statistical problems;
- apply mathematical and statistical techniques to model and optimise systems;
- communicate the results of mathematical and statistical analysis to wide variety of audiences;
- satisfy the minimum requirements for graduate membership of relevant professional bodies.

Mathematics and Statistics Major Courses

If students do not have the equivalent of Mathematical Methods experience prior to commencement of this major, students should seek guidance from the Program Director.

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered Online
MAT1102 Algebra and Calculus I	1	1
MAT2409 High Performance Numerical Computing[†]	1	1
MAT2200 Operations Research 1	2	2
MAT2100 Algebra and Calculus II	2	2
STA2301 Distribution Theory	1	1
STA3300 Experimental Design	1	1
STA3301 Statistical Models^{>}	2	2
STA3200 Multivariate Statistical Methods		1

Footnotes

[†] Unavailable on-campus at Toowoomba in S1 2023

[>] Unavailable Semester 2, 2023 Toowoomba On-campus

Note: If enrolled in this 8-unit Mathematics and Statistics major, students cannot also enrol in the 12-unit Mathematics and Statistics Extended major.

Second major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science (except Mathematics and Statistics Extended,) or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

Minor studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

The following courses are recommended electives for this major:

- [CSC1401 Foundation Programming[£]](#)
- [MAT1101 Discrete Mathematics for Computing](#)

[£] 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

General electives are courses chosen from other Level 1, 2 or 3 courses in the University.

Unsuitable electives

Students will require the approval of the Faculty of Health, Engineering and Sciences if they wish to include [MAT1000 Mathematics Fundamentals](#), [MAT1100 Foundation Mathematics](#), [ENM1500 Introductory Engineering Mathematics](#), and [MAC2901 Mathematics for Teachers](#) as electives towards the Bachelor of Science program majoring in Mathematics and Statistics.

Information Technology (12-unit major)

Information Technology Major Objectives

Graduates who have completed the major in Information Technology will be able to:

- work as a professional in the Information Technology industry
- show a sound understanding of the computing and IT-related areas
- have a broad knowledge in computing and digital data analytics
- have basic skills in software development, web design and computer applications systems
- show sound presentation and communication skills required in the computing industry
- satisfy academic admission requirements for membership of relevant professional bodies.

Information Technology Major Courses

This is a 12-unit extended major. This major extends the Computing major. This major is externally accredited by the Australian Computer Society.

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered Springfield	Semester(s) Offered Online
ELE1301 Computer Engineering	1	1	1
CSC2401 Algorithms and Data Structures	2		2
CIS1000 Digital Disruption[£]	1, 2	1,2,3	1,2
CSC2402 Object-Oriented Programming in C++	1		1
CSC2408 Software Development Tools	1, 2	1,2	1,2
CSC3412 System and Security Administration	1	1	1
CSC2406 Web Technology 1	2	2	2
CSC3426 Web Technology 2[*]	2		2
CIS2000 Systems Analysis and Design[#]	1	N/A	1,2
OR	Or	Or	Or
CSC1410 Software Engineering Foundations[#]	2	2	2
CIS3002 Agile Methods	1	1	1,2
CSC3600 ICT Professional Project	1,2	1,2	1,2
One (1) of the following courses :			
CSC3420 Mobile Internet Technology	1	1	1
CSC2404 Operating Systems	2	2	2
CSC1410 Software Engineering Foundations	2	2	2
CSC3400 Database Systems[£]	1	1	1,3
CSC3403 Comparative Programming Languages	1		1
CSC3502 Principles of Big Data Management	2	2	2
CSC3413 Network Design and Analysis	2	2	2
CSC3427 Switching, Wireless and WAN Technologies	2	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

* Students will need to complete [CSC2406](#) prior to enrolling in [CSC3426](#).

Students select from either [CIS2000 Systems Analysis and Design](#) or [CSC1410 Software Engineering Foundations](#), students should not complete both courses.

Note: Students who are enrolled in the 12-unit Information Technology major cannot also enrol in the 8-unit Computing major.

Students should also use the following table to select appropriate extended courses with the appropriate introductory, intermediate and advanced courses to focus on the different streams available in the major.

Computing/IT Streams	Foundational Courses per stream	Computing Major Intermediate Courses	Computing Major Advanced Courses	Extended major (Information Technology)
Software	CSC1401 Foundation Programming [£]	CSC1410 Software Engineering Foundations CSC2408 Software Development Tools	CIS3002 Agile Methods CSC3412 System and Security Administration CSC3403 Comparative Programming Languages	CSC3600 ICT Professional Project CSC3413 Network Design and Analysis
Networking			CSC3502 Principles of Big Data Management	CSC3426 Web Technology 2
Database			CSC3400 Database Systems [£]	CSC3502 Principles of Big Data Management
Web Technology		CSC2406 Web Technology 1	CSC3426 Web Technology 2	
Data Science	CSC1401 Foundation Programming [£] STA1003 Fundamental Statistics		STA3200 Multivariate Statistical Methods CSC3501 Principles of Data Science and Visualisation	

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

Second Major

Second majors can be chosen from any of the eight-unit majors defined below for the Bachelor of Science (except Computing) or, with the approval of the Faculty of Health, Engineering and Sciences, from other approved eight-unit majors from other undergraduate programs in the University. Majors in the [BITC Bachelor of Information Technology](#) are not suitable as a secondary major.

Computing (8-unit major)

Computing Major Objectives

Graduates who have completed the major in Computing will be able to:

- receive a broad-based education in sciences;
- study computing discipline area to Third Level;
- prepare students for teaching in discipline appropriate areas to Grade 12 level in Secondary Schools, subject to further study;

- cater for students who aspire to professional studies that require a general first degree for admission to computing industry;
- form a basis for study at postgraduate diploma level, honours level or higher.

Computing Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered Springfield	Semester(s) Offered Online
ELE1301 Computer Engineering	1	1	1
CSC2406 Web Technology 1	2	2	2
CSC1410 Software Engineering Foundations	2	2	2
CSC2408 Software Development Tools	1, 2	1,2	1,2
CIS3002 Agile Methods	1	1	1,2
CSC3400 Database Systems[£]	1	1	1,3
CSC3412 System and Security Administration	1	1	1
CSC3426 Web Technology 2	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

Second Major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

The following courses are recommended electives for this major:

- [CSC1401 Foundation Programming[£]](#)
- [MAT1101 Discrete Mathematics for Computing](#)

£ 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

General electives are courses chosen from other Level 1, 2 or 3 courses in the University.

Unsuitable Electives

For various reasons, the following course will not be approved as an elective for students majoring in Computing in the Bachelor of Science program:

- [CIS2000 Systems Analysis and Design](#).

Astronomical and Space Sciences (12-unit major)

Astronomical and Space Sciences Major Objectives

- demonstrate understanding of key astronomical concepts and solve related key numerical problems;
- use the tools (including mathematics), methodologies, language and conventions of astronomy to test and communicate ideas and explanations;
- execute and analyse the results of observations, including the evaluation of the level of uncertainty of these results, a comparison of these results with expected outcomes, and, hence, an assessment of their significance;

- communicate scientific information, in particular through scientific reports, to both expert and non-expert audiences;
- demonstrate understanding of key concepts relating to humanity's exploration and use of outer space and solve related key numerical problems.

Astronomical and Space Sciences Major Courses

This is a 12-unit extended major. Along with the Core courses prescribed above, students must take the following 12 units of courses:

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered External	Semester(s) Offered Online
PHY1101 Astronomy 1	1		1
PHY1104 Physics 1	1		1
PHY1107 Astronomy 2	2		2
PHY1911 Physics 2	2		2
PHY2207 Optics			2
PHY3303 Modern Physics*		1	
PHY3304 Photonics*		2	
PHY3305 Quantum Mechanics			1
PHY3306 Solar and Stellar Astronomy			1
PHY3307 Galactic and Extragalactic Astronomy			2
Choose 2 of the following 3 courses:			
PHY2206 Medical Physics			2
PHY2204 Astronomical Techniques			1
PHY2208 Planetary and Exoplanetary Science			2

Footnotes

- * This offering has a highly recommended residential school (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

Recommended Courses to support the Astronomical and Space Science major to be taken as electives or part of a Minor:

- [CSC1401 Foundation Programming](#)[£]
- [MAT1102 Algebra and Calculus I](#)^{*}
- [MAT2100 Algebra and Calculus II](#)^{*}

£ 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

* These courses are co-requisites for required courses [PHY1104 Physics 1](#) and [PHY1911 Physics 2](#)

For students considering post-graduate study in physics or astronomy, the following courses are highly recommended:

- [CSC1401 Foundation Programming](#)[£]
- [MAT2409 High Performance Numerical Computing](#)
- [SCI3301 Science Project](#)
- [MAT3103 Mathematical Modelling and Dynamical Systems](#)
- [MAT3105 Harmony of Partial Differential Equations](#)

£ 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

Physics (8-unit major)

Physics Major Objectives

- comprehend and demonstrate knowledge of physics laws, concepts and principles;
- apply physics principles to understand the causes of problems, devise strategies to solve them and test the possible solutions;
- use the tools (including mathematics), methodologies, language and conventions of physics to test and communicate ideas and explanations;
- safely execute and analyse the results of experiments, including the evaluation of the level of uncertainty of these results, a comparison of these results with expected outcomes, and, hence, an assessment of their significance;
- communicate scientific information, in particular through scientific reports, to both expert and non-expert audiences.

Physics Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered External	Semester(s) Offered Online
PHY1104 Physics 1	1		1
PHY1911 Physics 2	2		2
PHY2207 Optics			2
PHY3303 Modern Physics*		1	
PHY3304 Photonics**		2	
PHY3305 Quantum Mechanics			1
Choose two (2) from the following 3 courses:			
PHY2204 Astronomical Techniques			1
PHY2206 Medical Physics			2
PHY2208 Planetary and Exoplanetary Science			2

Footnotes

* This offering has a highly recommended residential school (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

Students who have completed PHYS313 through UNE are unable to enrol in [PHY3304](#).

Second Major

A second major can be chosen from any of the other eight-unit majors defined for the Bachelor of Science or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

The following courses are recommended electives for this major:

- [CSC1401 Foundation Programming](#)£

- [MAT1102 Algebra and Calculus I](#)*
- [MAT2100 Algebra and Calculus II](#)*

£ 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

* These courses are co-requisites for required courses [PHY1104 Physics 1](#) and [PHY1911 Physics 2](#)

For students considering post-graduate study in physics or astronomy, the following courses are highly recommended:

- [MAT2409 High Performance Numerical Computing](#)
- [SCI3301 Science Project](#)
- [MAT3103 Mathematical Modelling and Dynamical Systems](#)
- [MAT3105 Harmony of Partial Differential Equations](#)

BSCP - Psychology (12-unit major)

Psychology Major Objectives

Graduates who have completed the major in Psychology will be able to:

- demonstrate a sound understanding of the scope and focus of the major fields in contemporary Psychology
- gain employment in the public and private sectors as behavioural science graduates or as graduates with a broad range of skills
- satisfy the minimum requirements for affiliate membership of relevant professional bodies, most notably the Australian Psychological Society
- conduct research and report the findings to lay persons and the scientific community at large.

BSCP - Psychology Major Courses

This is a 12-unit major. This major is externally accredited by the Australian Psychology Accreditation Council. Along with the Core courses prescribed above, students must take the following 12 units of courses:

Courses	Semester(s) Offered Toowoomb	Semester(s) Offered Ipswich	Semester(s) Offered Online
PSY1010 Foundation Psychology A	1	1	1,3
PSY1020 Foundation Psychology B	2	2	1,2
PSY2010 Social Processes of Behaviour	1	1	1
PSY2020 Motivation and Emotion	1	1	1
PSY2030 Developmental Psychology	2	2	2
PSY2040 Human Information Processing <	2	2	2
PSY2100 Research Methods in Psychology A	1	1	1
PSY3010 Assessment of Behaviour	1	1	1
PSY3030 Abnormal Psychology	1	1	1
PSY3050 Counselling Psychology \$	2	2	2
PSY3060 Learning and Behaviour Change	1	1	1
PSY3111 Research Methods in Psychology B ^^	2	2	2

Footnotes

< Not available ONC Ipswich in S2 2023

\$ Not available ONC Toowoomba in S2 2023

^^ Not available ONC Toowoomba or ONC Ipswich in S2 2023

Second Major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science, or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

The double major Psychology (BSCP) and Human Physiology, will provide an appreciation of the connections between psychological and physiological aspects of human health and is highly recommended by the Faculty of Health, Engineering and Sciences.

Other majors in the University which have been taken as a second major with psychology include

- Human Resource Management within the [Bachelor of Business ..](#)
- Management and Leadership within the [Bachelor of Business ..](#)
- Business Administration within the [Bachelor of Business ..](#)
- Anthropology within the [Bachelor of Arts](#)
- History within the [Bachelor of Arts](#)
- English Literature within the [Bachelor of Arts](#)

Students intending to take a second major should begin enrolment in these courses in the first year of full-time enrolment, or the second year of part-time enrolment.

Minor Studies

A minor in Counselling is a recommended complimentary field of study to the Psychology major. Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

General electives can be selected from the table of psychology approved courses below or from any courses at Levels 1, 2 and 3 offered by UniSQ subject to satisfaction of pre-requisite requirements, timetabling constraints, quotas and program requirements. Please note that Diploma of Science Foundation core courses are not permitted as electives.

Unsuitable Electives

For various reasons, the following courses will not be approved as electives for students majoring in Psychology in the Bachelor of Science (BSCP) program:

[DIP1002 Strategies for Successful Study](#), [DIP1003 Essential Mathematics](#) and [DIP1004 Mathematical Literacy](#).

Psychology Approved Courses

Courses	Semester(s) Offered Online	Semester(s) Offered External
PSY3110 Clinical Health Psychology	2	
PSY3250 Sport and Exercise Psychology	2	
PSY3730 Industrial and Organisational Psychology	1	
PSY3180 Practicum A **		1
PSY3190 Practicum B ***		2

Footnotes

** Not available ONC Ipswich S1 2023

*** Not available ONC Ipswich S2 2023

Note: The psychology approved courses offered changes from year to year. For information about what psychology approved courses are being offered in any particular year students are directed to the course specification site for that particular year. Students are responsible for ensuring that they do not enrol in, or continue to be enrolled in, courses for which they have not satisfied the enrolment requirements (e.g., the necessary pre-requisites).

Animal Science (8-unit major)

Animals Sciences Major Objectives

Graduates who have completed the major in Animal Science will be able to:

- demonstrate discipline specific expertise in animal science, suitable to undertake professional work and/or further study now and/or into the future;
- exhibit competence in a range of cognitive and technical skills related to animal science including animal nutrition, animal reproduction, animal health, welfare, behaviour, husbandry, and management across a range of different species including production animals;
- communicate effectively across a diverse range of stakeholders using oral, written and technology-based approaches and work effectively across multidisciplinary teams within the animal and agricultural production sectors;
- work autonomously and collaboratively to critically analyse and evaluate information to construct and implement solutions to unpredictable and complex problems facing animal systems today;
- demonstrate an appreciation for the environmental, demographic, logistical, economic, and global pressures facing animal production systems today and how the use of technology may be applied to ensure economic and environmental sustainability;
- apply well directed ethical conduct in their professional practice as animal scientists, demonstrating knowledge of the regulatory frameworks relevant to their disciplinary area and how these can be applied within diverse cultural contexts, when identifying and responding to ethical and social issues.

Animal Science Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered External	Semester(s) Offered Online
AGR1101 Animal Health, Welfare and Behaviour *	1	1	
AGR2201 Animal Production Systems *	1	1	
AGR3202 Animal Reproduction *	1	1	
AGR2203 Animal Nutrition *	2	2	
AGR2301 Agricultural Science ^	2		2
AGR3302 Sensors and Technology in Animal Production	2	2	
BIO2103 Biology 2 *	2	2	
BIO2219 Genetics	2		2

Footnotes

* This offering has a highly recommended residential school for on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

^ Students undertaking a double major with Plant Agricultural Science should take [AGR1104 Farm Safety and Operations 1](#) (0.5 unit course) and [AGR2104 Farm Safety and Operations 2](#) (0.5 unit course) instead of [AGR2301 Agricultural Science](#) to complete this major.

Second Major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

A double major in Animal Science and Plant Agricultural Science will provide graduates with a well-rounded degree in agricultural science, equipping them with the skills and knowledge to take on a future career within the agricultural sector. This combination is particularly relevant to students seeking a future career as animal/agricultural scientists, farm managers, nutritionist, or agronomists.

A double major in Animal Science and Environment and Sustainability will provide graduates with the skills and knowledge to combat the present and future challenges of a growing agricultural sector. This combination is particularly relevant to students seeking a future career in any facet of the animal production sector.

A double major in Animal Science and Food Science will provide graduates with the skills and knowledge to combat the present and future challenges facing food security, processing, and production. This combination

is particularly relevant to students seeking a future career in the animal nutrition and food production sectors, such as animal feed product development and quality assurance.

A double major in Animal Science and Wildlife Management will provide graduates with the skills and knowledge to traverse a career within the animal management and conservation domains. This combination is particularly relevant to students seeking a career in animal/vertebrate pest management, biosecurity, or captive wildlife husbandry.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

General electives are courses chosen from other Level 1, 2 or 3 courses in the University. Students without or limited background in Mathematical Methods are recommended to take the following elective:

- [MAT1100 Foundation Mathematics](#)

Biology (8-unit major)

Biology Major Objectives

Graduates who have completed the major in Biology will be able to:

- demonstrate more than a basic competence in biological and chemistry laboratory skills;
- exhibit a broad knowledge of the major biological disciplines including microbiology, biochemistry, genetics, environmental science, physiology and cell and molecular biology;
- appreciate the importance of the theory and techniques of cell and molecular biology to the research and diagnostic spheres;
- demonstrate a detailed knowledge of major environmental issues and apply this knowledge towards more sustainable environmental and resource management;

Biology Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered External	Semester(s) Offered Online
BIO1101 Biology 1 *	1	1	
BIO2103 Biology 2 #	2	2	
BIO2107 Cell and Molecular Biology 1 #	1	1	
BIO3318 Plant Microbe Interactions #	2	2	
BIO3207 Cell and Molecular Biology 2 #	2	2	
CHE1110 Chemistry 1 *	1	1	
BIO2219 Genetics	2		2
CHE2120 Chemistry 2 *	2	2	

Footnotes

* This offering has a highly recommended residential school for external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

This offering has a highly recommended residential school for on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

Second Major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science or, with the approval of the Program Director, from other eight-unit majors from other undergraduate programs in the University.

A double major in Animal Science and Biology will provide graduates with a well-rounded degree in animal biology, equipping them with the skills and knowledge to take on a future career as an animal scientist and provide them with a good grounding in laboratory skills to take on further postgraduate study in areas such as molecular biology, biochemistry, genetics, microbiology, and physiology. This combination is particularly relevant to students seeking a future career in the medical/veterinary field as an animal research officer, technical officer or research scientists.

A double major in Plant Agricultural Science and Biology will provide graduates with a well-rounded degree in plant biology, equipping them with the skills and knowledge to take on a future career as a plant scientist and provide them with a good grounding in laboratory skills to take on further postgraduate study in areas such as molecular biology, biochemistry, and genetics. This combination is particularly relevant to students seeking a future career in the field of plant breeding as a laboratory research officer, technical officer, or agricultural scientists.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

Any course not undertaken within the major structure is a recommended elective. General electives are courses chosen from other Level 1, 2 or 3 courses in the University. Students without or limited background in Mathematical Methods are recommended to take the following elective:

- [MAT1100 Foundation Mathematics](#)

Environment and Sustainability (8-unit major)

Environment and Sustainability Major Objectives

Graduates who have completed the major in Environment and Sustainability will be able to:

- demonstrate more than a basic competence in climatology, physics, statistics and mathematics, environmental science, ecology and conservation, natural resource management and sustainability
- demonstrate a detailed knowledge of major environmental issues, human impacts and key climate mechanisms and apply this knowledge towards more sustainable environmental and resource management
- have a sound comprehension of the social, political and environmental implications of human impacts and global environmental changes
- apply the principles of sustainability in a wide diversity of professional opportunities

Environment and Sustainability Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered Springfield	Semester(s) Offered Online
REN1201 Environmental Studies⁺	1	1	1
REN2200 Ecology for Sustainability	1		1
REN3301 Biodiversity and Conservation	2		2
REN3302 Sustainable Resource Use	2		2
CLI1110 Weather and Climate	1		1
CLI2201 Climate Change and Variability			2

CLI3301 Climate and Environment Risk Assessment			1
CLI3302 Adaptation to Climate Change			2

Footnotes

+ The Springfield on-campus offer is not available in 2023.

Second Major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

There are a number of other courses, minors and majors with a focus on sustainability that students may wish to study.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

General electives are courses chosen from other Level 1, 2 or 3 courses in the University. It is recommended that students choose [SCI3301 Science Project](#) as an elective. Students without, or limited background in Mathematical Methods are recommended to take the following elective:

- [MAT1100 Foundation Mathematics](#)

Food Science (8-unit major)

Food Science Major Objectives

Graduates who have completed the major in Food Science will be able to:

- apply knowledge of the breadth and depth of the major scientific and technical fields in contemporary food science to describe and explain the development, production and manufacturing of nutritious, safe, sustainable foods and food products;
- demonstrate more than a basic competence of the different laboratory analyses and manufacturing methods for food product development and assessment;
- develop a broad range of skills, which are suited to occupations requiring the study or application of food science in both the public, private and research sectors;
- have a sound comprehension that food development has regulatory, social and ethical requirements in the contexts of food safety, food sustainability and nourishing of populations;
- conduct product development research and report the findings to lay persons, industry and the scientific community at large;
- prepare and develop a portfolio, which documents learning of technical skills, application of skills in industry and/or research environments and development of graduate attributes.

Food Science Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered External	Semester(s) Offered Online
BIO1810 Introduction to Food Science	1		1
CHE2810 Food Chemistry	1		1
BIO2810 Nutrition and Health	2		2
CHE2820 Principles of Food Analysis	2		2
BIO3810 Food Processing *	1	1	

BIO3811 Food Product Development *	2	2	
BIO3820 Food Microbiology *	1	1	
BIO3821 Food Quality Assurance *	2	2	

Footnotes

* This offering has a highly recommended residential school for both on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

Second Major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

A double major in Food Science and Plant Agricultural Science will provide opportunities for students to learn how to design future food supply systems from food production to consumer, to help safely and sustainably nourish the world.

A double major in Food Science and Environment and Sustainability will allow students to learn to students will learn to analyse and design sustainable food systems through mathematical analyses around resource use, including raw materials, people/labour and energy. This will be applicable particularly in the food processing and sustainable resource use.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

General electives are courses chosen from other Level 1, 2 or 3 courses in the University. Students without, or limited background in Mathematical Methods are recommended to take the following elective:

- [MAT1100 Foundation Mathematics](#)

Geospatial Science (8-unit major)

Geospatial Science Major Objectives

Graduates who have completed the major in Geospatial Science will have:

- broad and coherent knowledge in the theories, concepts, methods and technologies in the area of geospatial science;
- skills and knowledge of the analysis and evaluation of appropriate technologies, methods and processes to solve and complete a range of geospatial 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 the domain of spatial information;
- consistent application of academic norms and ethical standards in decision making when working collaboratively in a professional capacity;
- knowledge of spatial information systems to sufficient depth to be eligible for employment and certification, where appropriate, as a GIS Spatial Scientist.

Geospatial Science Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered Springfield	Semester(s) Offered Online
GIS1402 Geographic Information Systems [£]	1	1	1,3
GIS1401 Geographic Data Presentation	2	2	2

GIS2405 Spatial Analysis and Modelling	2		2
GIS2407 Web Based Geographic Information System	2		2
CSC3400 Database Systems [£]	1	1	1,3
GIS3407 GIS Programming and Visualisation	1		1
GIS3406 Remote Sensing and Image Processing	1		1
GIS3008 Applications of GIS and Remote Sensing	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

Second Major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

The following courses are recommended electives for this major:

- [CSC1401 Foundation Programming](#)[£]
- [MAT1101 Discrete Mathematics for Computing](#)

£ 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

General electives are courses chosen from other Level 1, 2 or 3 courses in the University. Students without, or limited background in Mathematical Methods are recommended to take the following elective:

- [MAT1100 Foundation Mathematics](#)

Human Physiology (8-unit major)

Human Physiology Major Objectives

Graduates who have completed the major in Human Physiology will be able to:

- describe the biological processes that occur in the human body at the system, organ, tissue and cellular levels in order to maintain homeostasis;
- apply knowledge of human anatomy and physiology to explain the changes that occur across the lifespan and in disease processes and also the mechanisms of action of therapeutic options;
- exhibit practical and technical skills in the laboratory to generate scientific data as well as employ research skills including data analysis, interpretation, literature critiquing and academic writing;
- work collaboratively to clearly and coherently communicate human physiology concepts to a range of audiences using oral, written and digital communication formats;
- exhibit ethical and professional (including culturally respectful) standards and workplace health and safety requirements.

Human Physiology Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered Ipswich	Semester(s) Offered External	Semester(s) Offered Online
BIO1104 Medical Microbiology and Immunology 1 [^]	2		2	
BIO1203 Human Anatomy and Physiology 1 ^{£^}	1	1	1,3	
BIO1204 Introduction to Biomedical Sciences ^{**}	1,2		1,2	
BIO1206 Human Anatomy and Physiology 2 ^{£^}	2	2	2,3	
BIO2118 Systems Physiology and Pharmacology [#]	1		1	
BIO2218 Concepts in Endocrinology [#]	2		2	
BIO3102 Human Pathophysiology				1
BIO3201 Extreme Physiology and Pharmacology				2

Footnotes

[^] Mandatory residential school for external students

[£] 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

^{**} Semester 1: External students attend mandatory residential school, on-campus students attend mandatory lab classes. Semester 2: External and on-campus students attend mandatory residential school.

[#] Mandatory residential school for external and on-campus students.

Second Major

The following double major combinations are recommended for supporting a students' career pathway.

Human Physiology and Mathematics and Statistics (8 unit major) for students intending to pursue a career in Bioinformatics.

Human Physiology and Physics for students intending to pursue a career in Microscopy and Imaging.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

General electives are courses chosen from other Level 1, 2 or 3 courses in the University. Students without, or limited background in Mathematical Methods are recommended to take the following elective:

- [MAT1100 Foundation Mathematics](#)

Courses from the Psychology major combined with Human Physiology will provide an appreciation of the connections between psychological and physiological aspects of human health.

Plant Agricultural Science (8-unit major)

Plant Agricultural Science Major Objectives

On completion of this major, graduate should be able to:

- demonstrate discipline specific expertise in plant agricultural science, suitable to undertake professional work and/or further study in the agricultural field now and/or into the future;
- exhibit competence in a range of cognitive and technical skills related to agricultural science including agronomy, plant physiology and breeding, and soil science;

- communicate effectively across a diverse range of stakeholders using oral, written and technology-based approaches and work effectively across multidisciplinary teams within the agricultural sector;
- work autonomously and collaboratively as plant agricultural scientists to critically analyse and evaluate information to construct and implement solutions to unpredictable and complex problems;
- demonstrate an appreciation for the environmental, demographic, logistical, economic, and global pressures facing agricultural systems today;
- make guided judgements in their professional practice when identifying and responding to cultural, ethical, and social issues including those relevant to indigenous peoples and those of diverse cultures and backgrounds.

Plant Agricultural Science Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered External	Semester(s) Offered Online
BIO1101 Biology 1 [*]	1	1	
AGR2301 Agricultural Science	2		2
BIO2202 Plant Physiology [#]	2	2	
AGR2304 Plant Breeding [#]	2	2	
AGR2303 Agronomy	1		1
AGR3304 Soil Science	1		1
AGR3305 Precision and Smart Technologies in Agriculture	2		2
BIO3318 Plant Microbe Interactions	2	2	

Footnotes

* This offering has a highly recommended residential school for external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

This offering has a highly recommended residential school for on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

Second major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University. Combine with a second major, such as Animal, Food, Wine, or Environment and Sustainability to create a well-rounded agriculture degree and broaden your employment potential.

A double major in Plant Agricultural Science and Animal Science will provide graduates with a well-rounded degree in agricultural science, equipping them with the skills and knowledge to take on a future career within the agricultural sector. This combination is particularly relevant to students seeking a future career as animal/agricultural scientists, farm manager, nutritionist, or agronomists.

A double major in Plant Agricultural Science and Environment and Sustainability will provide graduates with the skills and knowledge to combat the present and future challenges of a growing agricultural sector and food security. This combination is particularly relevant to students seeking a future career in any facet of the agricultural industry.

A double major in Plant Agricultural Science and Food Science equips students with theoretical knowledge and important practical skills particularly suitable for students looking toward a career in the various and diverse sectors of the agricultural and food industries.

A double major in Plant Agricultural Science and Wine Science equips students with theoretical knowledge and important practical skills particularly suitable for students looking toward a career in the various and diverse sectors of the agricultural and viticultural industries.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

General electives are courses chosen from other Level 1, 2 or 3 courses in the University. Students without, or limited background in Mathematical Methods are recommended to take the following elective:

- [MAT1100 Foundation Mathematics](#)

Wildlife Management (8-unit major)

Wildlife Management Major Objectives

Graduates who have completed the major in Wildlife Management will be able to:

- demonstrate more than a basic competence of the different types of wildlife and their management, and how and why wildlife needs to be conserved, utilized or controlled
- demonstrate a detailed knowledge of native and introduced wildlife species management and be able to apply this management knowing the strengths and weaknesses of different management techniques
- have a sound comprehension that wildlife can be iconic, important (ecologically, socially, economically), abundant, vulnerable to extinction and have an important role in animal biosecurity
- apply the principles of wildlife management to manage wildlife in captivity, to mitigate human-wildlife conflict, to measure and monitor wildlife populations for different purposes

Wildlife Management Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered External	Semester(s) Offered Online
AGR1101 Animal Health, Welfare and Behaviour *	1	1	
WLF2101 Management of Wildlife *	1	1	
WLF1201 Field Skills for Wildlife, Game and Pest Management ⁺		2	
REN3301 Biodiversity and Conservation	2		2
WLF2201 Vertebrate Pests and Biosecurity *	2	2	
WLF3101 Principles of Wildlife Management & Sustainable Use [^]			1
SCI3301 Science Project			1,2
WLF3201 Captive Wildlife Management ^{*^}	2	2	

Footnotes

- * This offering has a highly recommended residential school for on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment)
- + This course has a mandatory residential school
- ^ This course will be introduced in 2024

Second Major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

There are a number of other courses, minors and majors with a focus on wildlife ecology that students may wish to study.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

General electives are courses chosen from other Level 1, 2 or 3 courses in the University.

Wine Science (8-unit major)

Wine Science Major Objectives

Graduates who have completed the major in Wine Science will be able to:

- show a sound understanding of vineyard management practices for quality wine grape production;
- demonstrate a detailed knowledge of the processes involved in production of different wine types and styles;
- illustrate understanding of sustainable and environmentally sensitive vineyard and winery management practices;
- display skills sensorial assessment of wine including gaining experience in judging wine show system;
- have an appreciation of the history and diversity of the global wine industry.

Wine Science Major Courses

Courses	Semester(s) Offered Toowoomba	Semester(s) Offered External	Semester(s) Offered Online
WIN1101 Grape and Wine Production			1
WIN2200 Viticultural and Winemaking Practice⁺		1	
WIN2215 Wine Biochemistry and Microbiology			2
WIN2210 Viticultural Principles and Production			2
WIN2220 Wine Production			2
WIN3310 Wine Sensory Analysis⁺		2	
WIN3304 Viticultural and Winemaking Practice 2⁺		3	
BIO1101 Biology 1[*]	1	1	

Footnotes

⁺ This course has a mandatory residential school

^{*} This offering has a highly recommended residential school for external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment)

Second Major

Second majors can be chosen from any of the other eight-unit majors defined for the Bachelor of Science or, with the approval of the Faculty of Health, Engineering and Sciences, from other eight-unit majors from other undergraduate programs in the University.

Minor Studies

Minor studies are a set of courses as defined in the [Minor Studies](#) section of the Handbook.

Electives

General electives are courses chosen from other Level 1, 2 or 3 courses in the University. Students without, or limited background in Mathematical Methods are recommended to take the following elective:

- [MAT1100 Foundation Mathematics](#)

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](#).

Animal Science

- [AGR1101 Animal Health, Welfare and Behaviour](#)
- [AGR2201 Animal Production Systems](#)
- [AGR3202 Animal Reproduction](#)
- [AGR2203 Animal Nutrition](#)
- [AGR3302 Sensors and Technology in Animal Production](#)
- [BIO2103 Biology 2](#)

Biology

- [BIO1101 Biology 1](#)
- [BIO2103 Biology 2](#)
- [BIO2107 Cell and Molecular Biology 1](#)
- [BIO3318 Plant Microbe Interactions](#)
- [BIO3207 Cell and Molecular Biology 2](#)
- [CHE1110 Chemistry 1](#)
- [CHE2120 Chemistry 2](#)

Food Science

- [BIO3810 Food Processing](#)
- [BIO3811 Food Product Development](#)
- [BIO3820 Food Microbiology](#)
- [BIO3821 Food Quality Assurance](#)

Human Physiology

- [BIO1104 Medical Microbiology and Immunology 1](#)
- [BIO1203 Human Anatomy and Physiology 1](#)
- [BIO1204 Introduction to Biomedical Sciences](#)
- [BIO1206 Human Anatomy and Physiology 2](#)
- [BIO2118 Systems Physiology and Pharmacology](#)
- [BIO2218 Concepts in Endocrinology](#)

Physics and Astronomical and Space Sciences

- [PHY3303 Modern Physics](#)
- [PHY3304 Photonics](#)

Plant Agricultural Science

- [AGR2304 Plant Breeding](#)
- [BIO1101 Biology 1](#)
- [BIO2202 Plant Physiology](#)
- [BIO3318 Plant Microbe Interactions](#)

Wildlife Management

- [AGR1101 Animal Health, Welfare and Behaviour](#)
- [WLF1201 Field Skills for Wildlife, Game and Pest Management](#)
- [WLF2101 Management of Wildlife](#)
- [WLF2201 Vertebrate Pests and Biosecurity](#)
- [WLF3201 Captive Wildlife Management](#)

Wine Science

- [WIN2200 Viticultural and Winemaking Practice](#)
- [WIN3304 Viticultural and Winemaking Practice 2](#)
- [WIN3310 Wine Sensory Analysis](#)
- [BIO1101 Biology 1](#)

Related programs

Requirements for entry to Master of Learning and Teaching

Students intending to become secondary school teachers are advised that they may need to complete a postgraduate teacher entry qualification (such as the two-year) after completion of their undergraduate program. For further information, students should refer to the Education section of this Handbook or address enquiries to the Faculty of Business, Education, Law and Arts.

Exit points

Students who, for whatever reason, are unable to complete the Bachelor of Science and who satisfy all of the requirements may exit with a [DPSC Diploma of Science](#).

Credit

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

For PSY course exemptions – Psychology courses taken at another university or institution will only be considered for psychology exemptions if the courses were part of an APAC (Australian Psychology Accreditation Council) accredited sequence. APAC regulations clearly state that only courses taken within an APAC sequence can be used for exemptions from any PSY courses.

Recommended Enrolment Pattern - BSCP- Psychology Extended

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
Year 1							
SCI1001 Succeeding in Science	1	1			1	1	Enrolment is not permitted in HAC1000 if CMS1000 or CMS1100 has been previously completed
HAC1000 The Skilful Communicator	1	2			1	2,3	
PSY1010 Foundation Psychology A	1	1			1	1,3	

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
General Elective	1	1			1	1	
PSY1030 Cross-Cultural and Indigenous Psychology	1	2			1	2,3	
PSY1020 Foundation Psychology B	1	2			1	1, 2	
STA1003 Fundamental Statistics [§]	1	2			1	1,2,3	Enrolment is not permitted in STA1003 if S TA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
General Elective	1	2			1	2	
Year 2							
PSY2010 Social Processes of Behaviour	2	1			2	1	Pre-requisite: PSY1010
PSY2020 Motivation and Emotion	2	1			2	1	Pre-requisite: PSY1010 and PSY1020
PSY2100 Research Methods in Psychology A	2	1			2	1	Pre-requisite: PSY1010 and (STA2300 or STA1003). For students enrolled in Program BSSC with a major in BES: PSY1010 and STA3100
General Elective	2	1			2	1	
PSY2030 Developmental Psychology	2	2			2	2	Pre-requisite: PSY1010
PSY2040 Human Information Processing ^{<}	2	2			2	2	Pre-requisite: PSY1020 and (PSY2100 or STA2300 or STA1003)
PSY3111 Research Methods in Psychology B ^{^^}	2	2			2	2	Pre-requisite: PSY2100
General Elective	2	2			2	2	
Year 3							
PSY3010 Assessment of Behaviour	3	1			3	1	Pre-requisite: PSY2100
PSY3030 Abnormal Psychology	3	1			3	1	Pre-requisite: PSY1010
PSY3180 Practicum A			3	1			
PSY3060 Learning and Behaviour Change	3	1			3	1	Pre-requisite: PSY1020
PSY3050 Counselling Psychology [§]	3	2			3	2	Pre-requisite: PSY1010 or CDS3002
PSY3190 Practicum B ^{<}			3	2			Pre-requisite: PSY2105 (for WIL placement) OR students must be enrolled in BSED OR in third year of their psychology program (for Capstone project)
Psychology Elective (from list)	3	2			3	2	
Psychology Elective (from list)	3	2			3	2	

Footnotes

- § Unavailable online in S3 2023
< Not available ONC Ipswich in S2 2023
^^ Not available ONC Toowoomba or ONC Ipswich in S2 2023
\$ Not available ONC Toowoomba in S2 2023

Recommended Enrolment Pattern - 12 unit major - Information Technology

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
Year 1							
CSC1401 Foundation Programming [£]	1	1, 2			1	1, 2	
ELE1301 Computer Engineering	1	1			1	1	
CIS1000 Digital Disruption [£]	1	1			1	1	
MAT1101 Discrete Mathematics for Computing	1	1			1	1	
CMS1100 Communicating in the Sciences	1	1			1	1,2	
STA1003 Fundamental Statistics [§]	1	2			1	2	Enrolment is not permitted in STA1003 if S TA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
CSC2408 Software Development Tools	1	2			1	2	Pre-requisite: CSC1401
CSC2406 Web Technology 1	1	2			1	2	Pre-requisite: CSC1401 or Students must be enrolled in one of the following Programs: UCCC or GDTI or GCEN or METC or MCOT or MCTE or MCOP or MPIT or MCTN or B SED
Year 2							
CSC2402 Object-Oriented Programming in C++	2	1			2	1	Pre-requisite: CSC1401 or Students must be enrolled in one of the following Programs: GDTI or GCSC or GCEN or METC or MCOT or MCTE or MCOP or MPIT or MCTN
Choose one of the following two (2) courses (refer to footnote before choosing):							
CIS2000 Systems Analysis and Design [#]	2	1			2	1	
OR							
CSC1410 Software Engineering Foundations [#]		2				2	Pre-requisite: CSC1401
First general elective or course from the second major	2	1			2	1	
Second general elective or course from the second major	2	1			2	1	
CSC2401 Algorithms and Data Structures	2	2			2	2	Pre-requisite: CSC2402 or Students must be enrolled in one of the following Programs: GDTI or GCSC or GCEN or METC or MCOT or MCTE or MCOP or MPIT
Third general elective or course from the second major	2	2			2	2	
One specified course from the major list	2	2			2	2	
Fourth general elective or course from the second major	2	2			2	2	
Year 3							
CIS3002 Agile Methods	3	1			3	1,	Pre-requisite: CIS2000
CSC3412 System and Security Administration	3	1			3	1,	Pre-requisite: CSC2408
Fifth general elective or course from the second major	3	1			3	1	
Sixth general elective or course from the second major	3	1			3	1	
CSC3426 Web Technology 2	3	2			3	2	Pre-requisite: CSC2406
CSC3600 ICT Professional Project	3	2			3	1,2	Students enrolled from 2023 - Pre-requisite: CSC2000 and at least 16 courses including

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
							six other BITC core courses Students enrolled prior to 2023 - Pre-requisite: CIS3002 and at least 16 courses including seven other BITC core courses
Seventh general elective or course from the second major	3	2			3	2	
Eighth general elective or course from the second major	3	2			3	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 S3 2023
- # Students are not required to complete both [CIS2000 Systems Analysis and Design](#) and [CSC1410 Software Engineering Foundations](#). [CSC1410 Software Engineering Foundations](#) is only offered in Semester 2. If a student chooses to complete [CSC1410 Software Engineering Foundations](#) in Semester 2 then the student will need to complete the fourth general elective or course from the second major in Semester 1.

Recommended Enrolment Pattern - 12 unit major - Astronomical and Space Sciences

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

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								
PHY1104 Physics 1	1	1			1	1		Co-requisite: (MAT1102 or ENM2600) or Students must be enrolled in one of the following Programs: MSCN or GDSI or GCSC
PHY1101 Astronomy 1	1	1			1	1		
MAT1102 Algebra and Calculus I	1	1			1	1		
SCI1001 Succeeding in Science	1	1			1	1		
CMS1100 Communicating in the Sciences					1	1,2		
MAT2100 Algebra and Calculus II	1	2			1	2		Pre-requisite: MAT1102 or MAT1502 or ENM1600 or Students must be enrolled in the following program: MSCN or MEPR or BSED
PHY1911 Physics 2	1	2			1	2		Co-requisite: (MAT2100 or ENM1600) or Students must be enrolled in one of the following Programs: MSCN or GDSI or GCSC
PHY1107 Astronomy 2	1	2			1	2		
Year 2								
PHY3303 Modern Physics [#]			2	1			HR	Pre-requisite: PHY1104 and PHY1911
Course selected from 2nd major area or minor or general elective	2	1			2	1		
Choose one of the following three (3) courses:								
PHY2204 Astronomical Techniques					2	1,2		Pre-requisite: PHY1104 and PHY1911
PHY2206 Medical Physics					2	1,2		
PHY2208 Planetary and Exoplanetary Science					2	1,2		Pre-requisite: PHY1101

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		
STA1003 Fundamental Statistics [§]	2	1,2,3			2	1,2,3		Enrolment is not permitted in STA1003 if STA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
PHY2207 Optics					2	2		Pre-requisite: PHY1104 and PHY1911
Choose one of the following three courses								
PHY2204 Astronomical Techniques					2	2		Pre-requisite: PHY1104 and PHY1911
PHY2206 Medical Physics					2	2		
PHY2208 Planetary and Exoplanetary Science					2	2		Pre-requisite: PHY1101
CSC1401 Foundation Programming [£]	2	1,2,3			2	1,2,3		
Course selected from minor or general elective	2	1,2			2	1,2,3		
Year 3								
PHY3305 Quantum Mechanics					3	1		Pre-requisite or Co-requisite: PHY3303
PHY3306 Solar and Stellar Astronomy					3	1		Pre-requisite: PHY1104 and PHY1911
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3				Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
Course selected from 2nd major area or minor or general elective					3	1,2		
Course selected from 2nd major area or minor or general elective	3	2			3	2		
PHY3304 Photonics [#]			3	2			HR	Pre-requisite: PHY1104 and PHY1911
PHY3307 Galactic and Extragalactic Astronomy					3	2		Pre-requisite: PHY1104 and PHY1911
Course selected from 2nd major area or minor or general elective	3	2			3	2		

Footnotes

- # This offering has a highly recommended residential school (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).
- § 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

Recommended Enrolment Pattern - 12 Unit major - Mathematics and Statistics Extended

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
Year 1							
CMS1100 Communicating in the Sciences	1	1			1	1, 2	
SCI1001 Succeeding in Science	1	1			1	1	
MAT1102 Algebra and Calculus I	1	1			1	1	
STA1003 Fundamental Statistics [§]	1	1,2			1	1,2,3	Enrolment is not permitted in STA1003 if S TA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
CSC1401 Foundation Programming [£]	1	1,2,3			1	1,2,3	
MAT2200 Operations Research 1	1	2			1	2	Pre-requisite: MAT1102 or ENM1600 or equivalent or approval from the examiner. Enrolment is not permitted in MAT2200 if MAT1200 has been previously completed.
MAT2100 Algebra and Calculus II	1	2			1	2	Pre-requisite: MAT1102 or MAT1502 or ENM1600 or Students must be enrolled in the following program: MSCN or MEPR or BSED
General Elective (or second major)	1	2			1	2	
Year 2							
MAT2409 High Performance Numerical Computing [†]	2	1			2	1	Pre-requisite: (CSC2410 or CSC1401) and (MAT1102 or ENM1600) or Students must be enrolled in one of the following Programs: MPIT or MCOT or MCTE
STA2301 Distribution Theory	2	1			2	1	Pre-requisite: (STA2300 or STA1003 or equivalent) and (MAT1102 or ENM1600)
STA3300 Experimental Design	2	1			2	1	Pre-requisite: STA2300 or STA1003 or equivalent or approval of examiner
General Elective (or second major)	2	1			2	1	
STA2302 Statistical Inference					2	2	Pre-requisite: STA2301
STA3301 Statistical Models ^{>}	2	2			2	2	Pre-requisite: STA3300 or approval of examiner or Students must have completed STA8170 or STA6200 and be enrolled in one of the following Programs: GCSC or GDSI or MSCN or MADS or MSCR or DPHD.
General Elective or second major	2	2			2	2	
General Elective or second major	2	2			2	2	
Year 3							
MAT3105 Harmony of Partial Differential Equations ⁺	3	1			3	1	Pre-requisite: ENM2600 or MAT2100 or MAT2500
MAT3201 Operations Research 2 ^{*†}	3	1			3	1	Pre-requisite: MAT1200 or MAT2200 or Students must be enrolled in one of the following Programs: MSCN or GDSI
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3			Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
STA3200 Multivariate Statistical Methods					3	1	Pre-requisite: STA2300 or STA1003 Enrolment is not permitted in STA3200 if STA8005 or STA6100 have been previously completed
General Elective or second major	3	2			3	2	
General Elective or second major	3	2			3	2	
MAT3103 Mathematical Modelling and Dynamical Systems ⁺	3	2			3	2	Pre-requisite: MAT2100 or MAT2500 or ENM2600
General Elective or second major	3	2			3	2	

Footnotes

§ 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 on-campus at Toowoomba in S1 2023

> Unavailable Semester 2, 2023 Toowoomba On-campus

+ The on-campus offering of this course is offered in even-numbered years only.

* The on-campus offering of this course is offered in odd-numbered years only.

Recommended Enrolment Pattern - BSCP - Psychology

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
Year 1							
SCI1001 Succeeding in Science	1	1			1	1	
HAC1000 The Skilful Communicator	1	2			1	2,3	Enrolment is not permitted in HAC1000 if CMS1000 or CMS1100 has been previously completed
PSY1010 Foundation Psychology A	1	1			1	1,3	
General Elective	1	1			1	1	
PSY1030 Cross-Cultural and Indigenous Psychology	1	2			1	2,3	
PSY1020 Foundation Psychology B	1	2			1	1, 2	
STA1003 Fundamental Statistics [§]	1	2			1	1,2,3	Enrolment is not permitted in STA1003 if STA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
General Elective	1	2			1	2	
Year 2							
PSY2010 Social Processes of Behaviour	2	1			2	1	Pre-requisite: PSY1010
PSY2020 Motivation and Emotion	2	1			2	1	Pre-requisite: PSY1010 and PSY1020
PSY2100 Research Methods in Psychology A	2	1			2	1	Pre-requisite: PSY1010 and (STA2300 or STA1003). For students enrolled in Program BSSC with a major in BES: PSY1010 and STA3100
General Elective	2	1			2	1	
PSY2030 Developmental Psychology	2	2			2	2	Pre-requisite: PSY1010
PSY2040 Human Information Processing ^{<}	2	2			2	2	Pre-requisite: PSY1020 and (PSY2100 or STA2300 or STA1003)

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
PSY3111 Research Methods in Psychology B ^{^^}	2	2			2	2	Pre-requisite: PSY2100
General Elective	2	2			2	2	
Year 3							
PSY3010 Assessment of Behaviour	3	1			3	1	Pre-requisite: PSY2100
PSY3030 Abnormal Psychology	3	1			3	1	Pre-requisite: PSY1010
PSY3060 Learning and Behaviour Change	3	1			3	1	Pre-requisite: PSY1020
General Elective	3	1			3	1	
PSY3050 Counselling Psychology ^{\$}	3	2			3	2	Pre-requisite: PSY1010 or CDS3002
General Elective	3	2			3	2	
General Elective	3	2			3	2	
General Elective	3	2			3	2	

Footnotes

- § Unavailable online in S3 2023
 < Not available ONC Ipswich in S2 2023
 ^^ Not available ONC Toowoomba or ONC Ipswich in S2 2023
 \$ Not available ONC Toowoomba in S2 2023

Recommended Enrolment Pattern - 8 unit major - Animal Science

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

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								
SCI1001 Succeeding in Science	1	1			1	1		
CMS1100 Communicating in the Sciences	1	1			1	1,2		
STA1003 Fundamental Statistics [§]	1	1,2			1	1		Enrolment is not permitted in STA1003 if STA2300 or S TA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or under taking the Accounting Major in the BBCM, are not eligible for enrolment.
AGR1101 Animal Health, Welfare and Behaviour [*]	1	1	1	1			HR	
BIO2103 Biology 2 ^{§*}	1	2	1	2			HR	
AGR2301 Agricultural Science	1	2			1	2		
MAT1100 Foundation Mathematics	1	2			1	2		Enrolment is not permitted in MAT1100 if ENM1500 or MAT2100 or MAT1102 or ENM1600 or ENM2600 has been previously completed
General Elective (Or Major 2)	1	2			1	2		
Year 2								
AGR2201 Animal Production Systems [*]	2	1	2	1			HR	
General Elective (Or Major 2)	2	1			2	1		
General Elective (Or Major 2)	2	1			2	1		

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		
General Elective (Or Major 2)	2	1			2	1		
AGR2203 Animal Nutrition *	2	2	2	2			HR	Pre-requisite: BIO2103
BIO2219 Genetics	2	2			2	2		Pre-requisite: BIO1100 or BIO1101 or BIO1204 or AGR1101
General Elective (Or Major 2)	2	2			2	2		
General Elective (Or Major 2)	2	2			2	2		
Year 3								
General Elective (Or Major 2)	3	1			3	1		
AGR3202 Animal Reproduction *	3	1	3	1			HR	Pre-requisite: AGR1101 and BIO2103
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3				Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
General Elective (Or Major 2)	3	1			3	1		
AGR3302 Sensors and Technology in Animal Production *	3	2	3	2			HR	
General Elective (Or Major 2)	3	2			3	2		
General Elective (Or Major 2)	3	2			3	2		
General Elective (Or Major 2)	3	2			3	2		

Footnotes

§ Unavailable online in S3 2023

* This offering has a highly recommended residential school for on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

§ If students are enrolled in the Biology Major as well as the Animal Science major, students are to take [AGR2303 Agronomy](#) in place of [BIO2103 Biology 2](#).

Recommended Enrolment Pattern - 8 unit major - Biology

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

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								
BIO1101 Biology 1 *	1	1	1	1			HR	
SCI1001 Succeeding in Science	1	1			1	1		
CMS1100 Communicating in the Sciences	1	1			1	1,2		
CHE1110 Chemistry 1 *	1	1	1	1			HR	
STA1003 Fundamental Statistics [§]	1	1,2			1	1,2,3		Enrolment is not permitted in STA1003 if STA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
MAT1100 Foundation Mathematics	1	2			1	2		Enrolment is not permitted in MAT1100 if ENM1500 or MAT2100 or MAT1102 or

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 or ENM2600 has been previously completed
BIO2103 Biology 2 [#]	1	2	1	2			HR	
CHE2120 Chemistry 2 [*]	1	2	1	2			HR	Pre-requisite: CHE1110
BIO2107 Cell and Molecular Biology 1 [#]	2	1	2	1			HR	Pre-requisite: CHE2120
General Elective (Or Major 2)	2	1			2	1		
General Elective (Or Major 2)	2	1			2	1		
General Elective (Or Major 2)	2	1			2	1		
BIO2219 Genetics	2	2			2	2		Pre-requisite: BIO1100 or BIO1101 or BIO1204 or AGR1101
General Elective (Or Major 2)	2	2			2	2		
General Elective (Or Major 2)	2	2			2	2		
General Elective (Or Major 2)	2	2			2	2		
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3				Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
General Elective (Or Major 2)	3	1			3	1		
General Elective (Or Major 2)	3	1			3	1		
General Elective (Or Major 2)	3	1,2			3	1,2		
BIO3318 Plant Microbe Interactions [#]	3	2	3	2			HR	Pre-requisite: BIO1101 or S tudents must be enrolled in one of the following Program s: BATM or BENV or GCSC or GDSI or MSCN
BIO3207 Cell and Molecular Biology 2 [#]	3	2	3	2			HR	Pre-requisite: BIO2107
General Elective (Or Major 2)	3	1,2			3	1,2		
General Elective (Or Major 2)	3	1,2			3	1,2		

Footnotes

- * This offering has a highly recommended residential school for external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).
- § Unavailable online in S3 2023
- # This offering has a highly recommended residential school for on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

Recommended Enrolment Pattern - 8 unit major - Computing

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
Year 1							
ELE1301 Computer Engineering	1	1			1	1	
SCI1001 Succeeding in Science	1	1			1	1	
CSC1401 Foundation Programming [£]	1	1,2			1	1, 2, 3	
CMS1100 Communicating in the Sciences	1	1			1	1,2	
CSC1410 Software Engineering Foundations		2				2	Pre-requisite: CSC1401
STA1003 Fundamental Statistics [§]	1	1,2			1	1,2,3	Enrolment is not permitted in STA1003 if S TA2300 or STA8170 or STA6200 or

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
							STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
General Elective (or major 2)	1	2			1	2	
General Elective (or major 2)	1	2			1	2	
Year 2							
CSC2408 Software Development Tools	2	1,2			2	1, 2	Pre-requisite: CSC1401
General Elective (or major 2)	2	1			2	1	
General Elective (or major 2)	2	1			2	1	
General Elective (or major 2)	2	1			2	1	
CSC2406 Web Technology 1	2	2			2	2	Pre-requisite: CSC1401 or Students must be enrolled in one of the following Programs: UCCC or GDTI or GCEN or METC or MCOT or MCTE or MCOP or MPIT or MCTN or B SED
General Elective (or major 2)	2	2			2	2	
General Elective (or major 2)	2	2			2	2	
General Elective (or major 2)	2	2			2	2	
Year 3							
CSC3400 Database Systems [£]	3	1			3	1	Pre-requisite: CSC1401 or CIS1000 Enrolment is not permitted in CSC3400 if CIS2002 has been previously completed.
CSC3412 System and Security Administration	3	1			3	1	Pre-requisite: CSC2408
CSC3426 Web Technology 2	3	2			3	2	Pre-requisite: CSC2406
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3			Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
General Elective (or major 2)	3	1,2			3	1,2	
General Elective (or major 2)	3	1,2			3	1,2	
General Elective (or major 2)	3	1,2			3	1,2	
General Elective (or major 2)	3	1,2			3	1,2	

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 S3 2023

Recommended Enrolment Pattern - 8 unit major - Environment and Sustainability

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
Year 1							
REN1201 Environmental Studies ⁺	1	1			1	1	Enrolment is not permitted in REN1201 if REN8101 has been previously completed.
CLI1110 Weather and Climate	1	1			1	1	
SCI1001 Succeeding in Science	1	1			1	1	
CMS1100 Communicating in the Sciences [*]	1	1			1	1,2	
General Elective (or major 2)	1	2			1	2	

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
STA1003 Fundamental Statistics [§]	1	2			1	2,3	Enrolment is not permitted in STA1003 if STA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
MAT1100 Foundation Mathematics	1	2			1	2	Enrolment is not permitted in MAT1100 if ENM1500 or MAT2100 or MAT1102 or ENM1600 or ENM2600 has been previously completed
General Elective (Or Major 2)	1	2			2	2	
Year 2							
REN2200 Ecology for Sustainability	2	1			2	1	Enrolment is not permitted in REN2200 if REN8202 has been previously completed.
General Elective (or major 2)	2	1			2	1	
General Elective (or major 2)	2	1			2	1	
General Elective (or major 2)	2	1			2	1	
REN3302 Sustainable Resource Use	2	2			2	2	
CLI2201 Climate Change and Variability					2	2	
General Elective (or major 2)	2	2			2	2	
General Elective (or major 2)	2	2			2	2	
Year 3							
CLI3301 Climate and Environment Risk Assessment					3	1	
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3			Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
General Elective (or major 2)	3	1			3	1	
General Elective (or major 2)	3	1			3	1	
CLI3302 Adaptation to Climate Change					3	2	
REN3301 Biodiversity and Conservation	3	2			3	2	
General Elective (or major 2)	3	2			3	2	
General Elective (or major 2)	3	2			3	2	

Footnotes

- + The Springfield on-campus offer is not available in 2023.
* Students may choose [HAC1000 The Skilful Communicator](#) in lieu of [CMS1100 Communicating in the Sciences](#) if they wish.
§ Unavailable online in S3 2023

Recommended Enrolment Pattern - 8 unit major – Food Science

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

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								
BIO1810 Introduction to Food Science	1	1			1	1		
SCI1001 Succeeding in Science	1	1			1	1		
CMS1100 Communicating in the Sciences	1	1			1	1,2		
STA1003 Fundamental Statistics [§]	1	1,2			1	1,2,3		Enrolment is not permitted in STA1003 if STA2300 or S TA8170 or STA6200 or

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		
								STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
MAT1100 Foundation Mathematics	1	2			1	2		Enrolment is not permitted in MAT1100 if ENM1500 or MAT2100 or MAT1102 or ENM1600 or ENM2600 has been previously completed
General Elective (or major 2)	1	2			1	2		
General Elective (or major 2)	1	2			1	2		
General Elective (or major 2)	1	2			1	2		
Year 2								
CHE2810 Food Chemistry	2	1			2	1		
General Elective (or major 2)	2	1			2	1		
General Elective (or major 2)	2	1			2	1		
General Elective (or major 2)	2	1			2	1		
CHE2820 Principles of Food Analysis	2	2			2	2		
BIO2810 Nutrition and Health	2	2			2	2		
General Elective (or major 2)	2	2			2	2		
General Elective (or major 2)	2	2			2	2		
Year 3								
BIO3810 Food Processing *	3	1	3	1			HR	
BIO3820 Food Microbiology *	3	1	3	1			HR	
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3				Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
General Elective (or major 2)	3	1			3	1		
BIO3811 Food Product Development *	3	2	3	2			HR	Pre-requisite: BIO1810
BIO3821 Food Quality Assurance *	3	2	3	2			HR	
General Elective (or major 2)	3	2			3	2		
General Elective (or major 2)	3	2			3	2		

Footnotes

§ Unavailable online in S3 2023

* This offering has a highly recommended residential school for both on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

Recommended Enrolment Pattern - 8 unit major – Geospatial Science

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
Year 1							
GIS1402 Geographic Information Systems [£]	1	1			1	1	

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
SCI1001 Succeeding in Science	1	1			1	1	
CMS1100 Communicating in the Sciences	1	1			1	1,2	
STA1003 Fundamental Statistics [§]	1	1,2			1	1,2,3	Enrolment is not permitted in STA1003 if S TA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
GIS1401 Geographic Data Presentation	1	2			1	2	
General Elective (or major 2)	1	2			1	2	
General Elective (or major 2)	1	2			1	2	
General Elective (or major 2)	1	2			1	2	
Year 2							
General Elective (or major 2)	2	1			2	1	
General Elective (or major 2)	2	1			2	1	
General Elective (or major 2)	2	1			2	1	
General Elective (or major 2)	2	1			2	1	
GIS2405 Spatial Analysis and Modelling	2	2			2	2	
GIS2407 Web Based Geographic Information System	2	2			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
General Elective (or major 2)	2	2			2	2	
General Elective (or major 2)	2	2			2	2	
Year 3							
CSC3400 Database Systems [£]	3	1			3	1,3	Pre-requisite: CSC1401 or CIS1000 Enrolment is not permitted in CSC3400 if CIS2002 has been previously completed.
GIS3407 GIS Programming and Visualisation	3	1			3	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
GIS3406 Remote Sensing and Image Processing	3	1			3	1	
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3			Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
GIS3008 Applications of GIS and Remote Sensing	3	2			3	2	Pre-requisite: GIS1402 and GIS3406 or Students must be enrolled in one of the following Programs: GCST or GDST or MSPT
General Elective (or major 2)	3	2			3	2	
General Elective (or major 2)	3	2			3	2	
General Elective (or major 2)	3	2			3	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 S3 2023

Recommended Enrolment Pattern - 8 unit major - Human Physiology

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

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								
BIO1204 Introduction to Biomedical Sciences [#]	1	1	1	1			M	
CMS1100 Communicating in the Sciences	1	1			1	1		
SCI1001 Succeeding in Science	1	1			1	1		
BIO1203 Human Anatomy and Physiology 1 ^{£#}	1	1	1	1,3			M	
BIO1104 Medical Microbiology and Immunology 1 [#]	1	2	1	2			M	
STA1003 Fundamental Statistics [§]	1	2			1	2,3		Enrolment is not permitted in STA1003 if STA2300 or S TA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or under taking the Accounting Major in the BBCM, are not eligible for enrolment.
MAT1100 Foundation Mathematics	1	2			1	2		Enrolment is not permitted in MAT1100 if ENM1500 or MAT2100 or MAT1102 or ENM1600 or ENM2600 has been previously completed
BIO1206 Human Anatomy and Physiology 2 ^{£#}	1	2	1	2			M	Pre-requisite: BIO1203
Year 2								
BIO2118 Systems Physiology and Pharmacology [*]	2	1	2	1			M	Pre-requisite: BIO1203 Co-requisite: STA2300 or STA1003
General Elective (or major 2)	2	1			2	1		
General Elective (or major 2)	2	1			2	1		
General Elective (or major 2)	2	1			2	1		
BIO2218 Concepts in Endocrinology [*]	2	2	2	2			M	Pre-requisite: BIO2118
General Elective (or major 2)	2	2			2	2		
General Elective (or major 2)	2	2			2	2		
General Elective (or major 2)	2	2			2	2		
Year 3								
BIO3102 Human Pathophysiology					3	1		Pre-requisite: BIO2118 and BIO2218
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3				Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
General Elective (or major 2)	3	1			3	1		
General Elective (or major 2)	3	1			3	1		
BIO3201 Extreme Physiology and Pharmacology					3	2		Pre-requisite: BIO2118
General Elective (or major 2)	3	2			3	2		
General Elective (or major 2)	3	2			3	2		
General Elective (or major 2)	3	2			3	2		

Footnotes

- # Mandatory residential school for external students
£ 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 S3 2023
* Mandatory residential school for external and on-campus students

Recommended Enrolment Pattern - 8 unit major - Mathematics and Statistics

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
Year 1							
CMS1100 Communicating in the Sciences	1	1			1	1, 2	
SCI1001 Succeeding in Science	1	1			1	1	
MAT1102 Algebra and Calculus I	1	1			1	1	
STA1003 Fundamental Statistics [§]	1	1,2			1	1,2,3	Enrolment is not permitted in STA1003 if STA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
CSC1401 Foundation Programming [£]	1	1,2,3			1	1,2,3	
MAT2200 Operations Research 1	1	2			1	2	Pre-requisite: MAT1102 or ENM1600 or equivalent or approval from the examiner. Enrolment is not permitted in MAT2200 if MAT1200 has been previously completed.
MAT2100 Algebra and Calculus II	1	2			1	2	Pre-requisite: MAT1102 or MAT1502 or ENM1600 or Students must be enrolled in the following program: MSCN or MEPR or BSED
General Elective or second major	1	2			1	2	
Year 2							
MAT2409 High Performance Numerical Computing ^{#†}	2	1			2	1	Pre-requisite: (CSC2410 or CSC1401) and (MAT1102 or ENM1600) or Students must be enrolled in one of the following Programs: MPIT or MCOT or MCTE
STA2301 Distribution Theory	2	1			2	1	Pre-requisite: (STA2300 or STA1003 or equivalent) and (MAT1102 or ENM1600)
General Elective or second major	2	1			2	1	
General Elective or second major	2	1			2	1	
General Elective or second major	2	2			2	2	
General Elective or second major	2	2			2	2	
General Elective or second major	2	2			2	2	
General Elective or second major	2	2			2	2	
Year 3							
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3			Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
STA3200 Multivariate Statistical Methods					3	1	Pre-requisite: STA2300 or STA1003 Enrolment is not permitted in STA3200 if STA8005 or STA6100 have been previously completed
STA3300 Experimental Design	3	1			3	1	Pre-requisite: STA2300 or STA1003 or equivalent or approval of examiner

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (ONL)		
	Year	Sem	Year	Sem	Year	Sem	
General Elective or second major	3	1			3	1	
STA3301 Statistical Models ^{>}	3	2			3	2	Pre-requisite: STA3300 or approval of examiner or Students must have completed STA8170 or STA6200 and be enrolled in one of the following Programs: GCSC or GDSI or MSCN or MADS or MSCR or DPHD.
General Elective or second major	3	2			3	2	
General Elective or second major	3	2			3	2	
General Elective or second major	3	2			3	2	

Footnotes

- § 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
To enrol in [MAT2409](#) students should ensure they have first completed the prerequisite of [CSC2410](#) (preferred) or [CSC1401](#).
† Unavailable on-campus at Toowoomba in S1 2023
> Unavailable Semester 2, 2023 Toowoomba On-campus

Recommended Enrolment Pattern - 8 unit major - Physics

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

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								
PHY1104 Physics 1	1	1			1	1		Co-requisite: (MAT1102 or ENM2600) or Students must be enrolled in one of the following Programs: MSCN or GDSI or GCSC
MAT1102 Algebra and Calculus I	1	1			1	1		
SCI1001 Succeeding in Science	1	1			1	1		
Course selected from 2nd major area or minor or general electives	1	1			1	1		
PHY1911 Physics 2	1	2			1	2		Co-requisite: (MAT2100 or ENM1600) or Students must be enrolled in one of the following Programs: MSCN or GDSI or GCSC
MAT2100 Algebra and Calculus II	1	2			1	2		Pre-requisite: MAT1102 or MAT1502 or ENM1600 or Students must be enrolled in the following program: MSCN or MEPR or BSED
CMS1100 Communicating in the Sciences	1	1			1	1,2		
Course selected from 2nd major area or minor or general electives	1	2			1	2		
Year 2								
Choose two (2) of the following three (3) courses								
PHY2204 Astronomical Techniques					2	1		Pre-requisite: PHY1104 and PHY1911
PHY2206 Medical Physics					2	2		

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		
PHY2208 Planetary and Exoplanetary Science					2	2		Pre-requisite: PHY1101
STA1003 Fundamental Statistics [§]	2	1, 2			2	1,2		Enrolment is not permitted in STA1003 if STA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
Course selected from 2nd major area or minor or general elective	2	1			2	1		
Course selected from 2nd major area or minor or general elective	2	1			2	1		
PHY2207 Optics					2	2		Pre-requisite: PHY1104 and PHY1911
CSC1401 Foundation Programming [£]	2	1,2,3			2	1,2,3		
Course selected from 2nd major area or minor or general elective	2	2			2	2		
Year 3								
PHY3303 Modern Physics [#]			3	1			HR	Pre-requisite: PHY1104 and PHY1911
PHY3305 Quantum Mechanics					3	1		Pre-requisite or Co-requisite: PHY3303
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3				Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
Course selected from 2nd major area or minor or general elective	3	1			3	1		
PHY3304 Photonics ^{**#}			3	2			HR	Pre-requisite: PHY1104 and PHY1911
Course selected from 2nd major area or minor or general elective	3	2			3	2		
Course selected from 2nd major area or minor or general elective	3	2			3	2		
Course selected from 2nd major area or minor or general elective	3	2			3	2		

Footnotes

[§] 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

[#] This offering has a highly recommended residential school (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

^{**} Students who have completed PHYS313 through UNE are unable to enrol in [PHY3304](#).

Recommended Enrolment Pattern - 8 unit major – Plant Agricultural Science

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below

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								
BIO1101 Biology 1 *	1	1	1	1			HR	
SCI1001 Succeeding in Science	1	1			1	1		
CMS1100 Communicating in the Sciences	1	1			1	1,2		
STA1003 Fundamental Statistics §	1	1,2			1	1,2,3		Enrolment is not permitted in STA1003 if STA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or under taking the Accounting Major in the BBCM, are not eligible for enrolment.
AGR2301 Agricultural Science	1	2			1	2		
MAT1100 Foundation Mathematics	1	2			1	2		Enrolment is not permitted in MAT1100 if ENM1500 or MAT2100 or MAT1102 or ENM1600 or ENM2600 has been previously completed
General Elective (or major 2)	1	2			1	2		
General Elective (or major 2)	1	2			1	2		
Year 2								
AGR2303 Agronomy	2	1			2	1		
General Elective (or major 2)	2	1			2	1		
General Elective (or major 2)	2	1			2	1		
General Elective (or major 2)	2	1			2	1		
AGR2304 Plant Breeding #	2	2	2	2			HR	Pre-requisite: BIO1101
BIO2202 Plant Physiology #	2	2	2	2			HR	Pre-requisite: BIO1101
General Elective (or major 2)	2	2			2	2		
General Elective (or major 2)	2	2			2	2		
Year 3								
AGR3304 Soil Science	3	1			3	1		
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3				Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
General Elective (or major 2)	3	1			3	1		
General Elective (or major 2)	3	1			3	1		
BIO3318 Plant Microbe Interactions #	3	2	3	2			HR	Pre-requisite: BIO1101 or Students must be enrolled in one of the following Programs: BATM or BENV or GCSC or GDSI or MSCN
AGR3305 Precision and Smart Technologies in Agriculture	3	2			3	2		
General Elective (or major 2)	3	2			3	2		
General Elective (or major 2)	3	2			3	2		

Footnotes

- * This offering has a highly recommended residential school for external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).
- § Unavailable online in S3 2023
- # This offering has a highly recommended residential school for on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).

Recommended Enrolment Pattern - 8 unit major - Wildlife Management

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

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								
SCI1001 Succeeding in Science	1	1			1	1		
CMS1100 Communicating in the Sciences	1	1			1	1,2		
WLF2101 Management of Wildlife [*]	1	1	1	1			HR	
AGR1101 Animal Health, Welfare and Behaviour [*]	1	1	1	1			HR	
General Elective (Or Major 2)	1	2			1	2		
WLF1201 Field Skills for Wildlife, Game and Pest Management ⁺			1	2			M	
MAT1100 Foundation Mathematics	1	2			1	2		Enrolment is not permitted in MAT1100 if ENM1500 or MAT2100 or MAT1102 or ENM1600 or ENM2600 has been previously completed
WLF2201 Vertebrate Pests and Biosecurity [*]	1	2	1	2			HR	
Year 2								
STA1003 Fundamental Statistics [§]	2	1,2			2	1,2,3		Enrolment is not permitted in STA1003 if STA2300 or STA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or under taking the Accounting Major in the BBCM, are not eligible for enrolment.
General Elective (Or Major 2)	2	1			2	1		
General Elective (Or Major 2)	2	1			2	1		
General Elective (Or Major 2)	2	1			2	1		
General Elective (Or Major 2)	2	2			2	2		
General Elective (Or Major 2)	2	2			2	2		
General Elective (Or Major 2)	2	2			2	2		
General Elective (Or Major 2)	2	2			2	2		
Year 3								
WLF3101 Principles of Wildlife Management & Sustainable Use [^]					3	1		
SCI3301 Science Project					3	1,2		
General Elective (Or Major 2)	3	1			3	1		
General Elective (Or Major 2)	3	1			3	1		
WLF3201 Captive Wildlife Management ^{**^}	3	2	3	2			HR	
REN3301 Biodiversity and Conservation	3	2			3	2		

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		
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3				Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
General Elective (Or Major 2)	3	2			3	2		

Footnotes

- * This offering has a highly recommended residential school for on-campus and external students (linked to an assessment item and non-attendance will mean a student misses an element for assessment preparation or an element of assessment).
- + This course has a mandatory residential school
- § Unavailable online in S3 2023
- ^ This course will be introduced in 2024

Recommended Enrolment Pattern - 8 unit major - Wine Science

Students studying part-time should complete the major in a logical sequence as to reflect as close as possible the enrolment pattern below.

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								
WIN1101 Grape and Wine Production					1	1		
BIO1101 Biology 1	1	1	1	1				
SCI1001 Succeeding in Science	1	1			1	1		
General Elective (Or Major 2)	1	1			1	1		
General Elective (Or Major 2)	1	2			1	2		
CMS1100 Communicating in the Sciences					1	2		
STA1003 Fundamental Statistics [§]	1	2			1	2,3		Enrolment is not permitted in STA1003 if STA2300 or S TA8170 or STA6200 or STA1004 has been previously completed. Students enrolled in the BACT, or undertaking the Accounting Major in the BBCM, are not eligible for enrolment.
General Elective (Or Major 2)	1	2			1	2		
Year 2								
WIN2200 Viticultural and Winemaking Practice			2	1			M	Co-requisite: WIN1101
General Elective (Or Major 2)	2	1			2	1		
General Elective (Or Major 2)	2	1			2	1		
General Elective (Or Major 2)	2	1			2	1		
WIN2215 Wine Biochemistry and Microbiology					2	2		Pre-requisite: WIN1101
WIN2220 Wine Production					2	2		Pre-requisite: WIN1101
WIN2210 Viticultural Principles and Production					2	2		Pre-requisite: WIN1101
General Elective (Or Major 2)	2	2			2	2		
Year 3								
General Elective (Or Major 2)	3	1			3	1		
SCI3302 Work-Integrated-Learning	3	1,2,3	3	1,2,3				Pre-requisite: Completion of 2nd year (or 2 years full time study in a relevant area)
General Elective (Or Major 2)	3	1			3	1		
General Elective (Or Major 2)	3	1			3	1		

Consult the Handbook on the Web at <https://www.unisq.edu.au/handbook/current> for any updates that may occur during the year.
Bachelor of Science or Bachelor of Science (Psychology) (BSClorBSCP) - BSc or BSci(Psychology) (2023)

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		
WIN3310 Wine Sensory Analysis			3	2			M	Pre-requisite: WIN1101
General Elective (Or Major 2)	3	2			3	2		
General Elective (Or Major 2)	3	2			3	2		
WIN3304 Viticultural and Winemaking Practice 2			3	3			M	Pre-requisite: WIN1101

Footnotes

§ Unavailable online in S3 2023