

## 2024 Undergraduate Programs

Advanced Science  
Agribusiness  
Agricultural Science  
Biotechnology  
Environmental Management  
Environmental Science

Mathematics  
Occupational Health and Safety Science  
Science  
Veterinary Science  
Veterinary Technology  
Wildlife Science



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA

CREATE CHANGE

# Science, Mathematics, Agriculture and Environment





# Why study science at UQ?

Ranked in the world's top 50 universities\*, UQ offers you one of the widest choices of science disciplines in Australia. Experience innovative programs taught by world-class academics who will equip you with the skills and knowledge you will need to address today's global scientific challenges.

## Largest choice of science disciplines

UQ Science offers you a huge diversity of disciplines, encompassing pathways to traditional and emerging cross-disciplinary science careers, and incorporating broader options for careers in areas such as agriculture, biomedical science, veterinary science, the environment, and food technology, to name a few.

You will find job opportunities among the largest employers of scientists, technologists, business managers, consultants and other professionals, both in Australia and overseas.

## Great career outcomes

As a UQ Science graduate, your comprehensive, up-to-date knowledge and practical skills will equip you to undertake key roles in solving the challenges facing our world today. You can anticipate high employability rates and attractive starting salaries because of your skills and expertise. You will also have access to other UQ graduates through a strong global network of science alumni.

## Exceptional learning opportunities

As a UQ Science student you will be exposed to a range of relevant and innovative programs that will prepare you to help solve local, national and global challenges. You will access exceptional learning experiences with highly awarded teachers who will help you gain insights into the complexity of topical and contemporary problems through case studies and scenarios. Your classes will be enhanced by online interactive modules incorporating virtual objects such as 3D models or 'virtual field trips' using immersive visualisation eLearning tools. You will build and extend your technical and applied expertise through a combination of laboratory-based practicals, workshops, Australian or international field studies, internships and work experience. This blend of discipline-focused and practical knowledge will allow you to develop your analytical, teamwork and problem-solving skills to equip you for a career in industry or research.

You will also access premier student social and learning facilities, and the largest number of science-based teaching and research spaces in Queensland.

## Practical experience

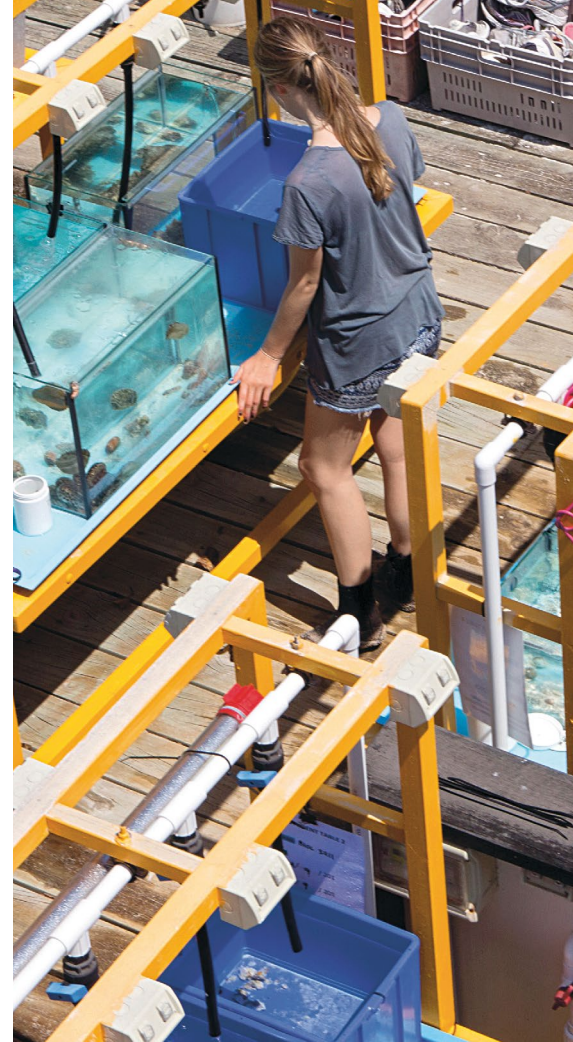
You will benefit from interacting with industry representatives, undertaking professional placements or internships, participating in the Summer Research Program with award-winning UQ researchers, and integrating industry-based training and real-life projects into your theoretical studies.

Your program may incorporate a year of research-intensive study called 'honours', or you may choose to complete honours as an additional component to gain valuable project management and research skills.

Your practical experience will open your world to a diverse range of careers that will allow you to work on issues such as climate change, biosecurity, feeding the global population, sustainable energy, disease eradication, and the management of diminishing natural resources.

You may even choose to study overseas at one of UQ's 140 international partner organisations to add a global perspective to your employment options.

Embark on a journey with us and discover how UQ is uniquely placed to make a difference to your future.



\* QS World University Rankings 2022



Students work in the Heron Island lab as part of a field trip. Photograph by Lisa Kurtz.

## Agriculture

1st in Australia  
4th in the world

NTU Performance Ranking of Scientific  
Papers for World Universities 2022

## Food Science and Technology

1st in Australia  
13th in the world

Academic Ranking of World  
Universities 2022

## Geography

3rd in Australia  
17th in the world

Academic Ranking of World  
Universities 2022

## Biological Science

53rd in the world

QS World University Rankings  
by Subject 2022

## Environment

1st in Australia  
19th in the world

QS World University Rankings  
by Subject 2022

## Biotechnology

1st in Australia  
9th in the world

Shanghai Ranking's Global Ranking  
of Academic Subjects, 2022

## Chemistry

4th in Australia

QS World University Rankings  
by Subject 2022

## Veterinary Science

38th in the world

QS World University Rankings  
by Subject 2022



UQ acknowledges the Traditional Owners and their  
custodianship of the lands on which UQ is situated.  
— Reconciliation at UQ

Front Cover  
Jake Neilson  
Biomedical Science student

# CONTENTS

Why study science at UQ?	Inside front cover
Experience UQ	2
Apply for a scholarship	2
A truly global network	3
Quick reference guide	4
UQ Skills vocational training	6
Program table explained	7
How you will learn	8

## UNDERGRADUATE DEGREES

<b>Bachelor of:</b>	
Advanced Science (Honours)	9
Science	10
Using the BSc as your pathway	10
Double your opportunities – Science dual programs	11
Bachelor of Science majors and minors	12
Applied Mathematics <i>Extended Major/Major/Minor</i>	13
Archaeological Science <i>Major/Minor</i>	13
Astrophysics <i>Minor</i>	13
Biochemistry and Molecular Biology <i>Extended Major/Major/Minor</i>	14
Bioinformatics <i>Major/Minor</i>	14
Biomedical Science <i>Extended Major/Major</i>	15
Biophysics <i>Minor</i>	15
Cell Biology <i>Extended Major/Major/Minor</i>	16
Chemical Biology <i>Minor</i>	16
Chemistry <i>Extended Major/Major/Minor</i>	17
Coastal and Ocean Science <i>Extended Major/Major/Minor</i>	17
Computational Science <i>Minor</i>	17
Computer Science <i>Extended Major/Major/Minor</i>	18
Data Science <i>Minor</i>	18
Developmental Biology <i>Minor</i>	18
Earth Science <i>Extended Major/Major/Minor</i>	19
Ecology and Conservation Biology <i>Extended Major/Major/Minor</i>	19
Entomology <i>Minor</i>	19
Food Science and Nutrition <i>Major</i>	20
Food Technology <i>Major/Minor</i>	20
Genetics <i>Extended Major/Major/Minor</i>	21
Geographical Science <i>Extended Major/Major</i>	21
Geographical Information Science <i>Minor</i>	22
Human Anatomy <i>Minor</i>	22
Human Physiology <i>Minor</i>	22
Immunology <i>Minor</i>	23
Marine Biology <i>Major/Minor</i>	23
Mathematics <i>Extended Major/Major/Minor</i>	24
Microbiology <i>Major/Minor</i>	24
Microbiology, Infection and Immunity <i>Extended Major</i>	25
Neuroscience <i>Minor</i>	25
Pharmacology <i>Minor</i>	25
Physics <i>Extended Major/Major/Minor</i>	26
Plant Science <i>Major/Minor</i>	26
Psychology <i>Extended Major/Major/Minor</i>	27
Public Health <i>Major</i>	27
Statistics <i>Major/Minor</i>	28
Zoology <i>Extended Major/Major/Minor</i>	28
Agribusiness	29
Agricultural Science	30
Biotechnology	31
Environmental Management (Honours)	32
Environmental Science	33
Mathematics	34
Occupational Health and Safety Science (Honours)	35
Veterinary Science (Honours)	36
Veterinary Technology	37
Wildlife Science	38
UQ Gatton	39
Student lifestyle	40
Plan your finances	41
UQ living	42
Are you an international student?	43
Applying to UQ	44
Study options	Inside back cover



# Experience UQ

We offer a range of experiences both before you start at UQ and once you're studying, so you can make the most of your time at UQ.

## Student Experience

Proactively build your employability with tailored programs and individual consultations that will make you stand out to employers during and on completion of your study. We partner with external employers, alumni, businesses, government and community organisations to create learning and engagement opportunities, including industry placements and internships. Some of the programs you can take advantage of as a UQ student include:

### Leadership and Mentoring Program in Science (LaMPS)

Develop your leadership and mentoring capabilities through a series of online modules, on-campus workshops and events, and a residential camp. Learn about the psychology of leadership theory, emotional intelligence, the difference between leadership and management, how to lead yourself and others, and peer mentoring. LaMPS runs in Semester 2 each year and provides a pathway into the Science Leaders Academy.

### Science Leaders Academy

Develop your employability and leadership through a range of opportunities exclusive to the Science Leaders Academy. You will have opportunities to welcome and mentor new students, attend leadership workshops and events, participate in committees, interact with researchers and industry, and contribute to the UQ Science community. Some of these opportunities are paid. Entry to the Science Leaders Academy is by application and interview in February each year. We strongly encourage you to complete LaMPS before applying.

### Career development

We offer an employability development program for undergraduate students that takes you through the steps to successfully launch your career. Throughout semester you can attend workshops on topics such as using LinkedIn to expand your network, crafting strong job applications, and interview techniques. You can also book an individual appointment with the Science Career Development Adviser to review your resume, prepare for interviews, and address your career questions.

For more information  
[employability.uq.edu.au/find-a-job](https://employability.uq.edu.au/find-a-job)

## Experience UQ before you arrive

UQ offers students in years 9-12 access to a wide range of unique practical science experiences including:



### Future Experiences in Agriculture, Science and Technology (FEAST)

4 days, residential



### Experience Ecology

1 day, on campus



### Junior Physics Odyssey

4 days, on campus

For the most up-to-date list of workshops and activities for high school students, visit [uq.edu.au/high-schools/activities-and-workshops-students](https://uq.edu.au/high-schools/activities-and-workshops-students)

## UQ Open Day

<b>St Lucia campus</b>	<b>6 August 2023</b>
<b>Gatton campus</b>	<b>20 August 2023</b>

Find out about programs and courses, explore the campus and facilities, meet staff and current students, and enjoy a range of fun activities at this free event.  
[study.uq.edu.au/open-day](https://study.uq.edu.au/open-day)

## Apply for a scholarship

Make your UQ experience more affordable with the support of a scholarship. You may not think you're eligible, but you might be surprised!

### University-wide scholarships

UQ has a range of scholarships designed to attract, reward and support outstanding students from all walks of life. Our scholarships develop and encourage tomorrow's leaders and offer support to students who might not otherwise be able to attend university.

### UQ Academic Scholarships

The UQ Academic Scholarships scheme offers 2 flagship undergraduate scholarships: UQ Vice-Chancellor's Scholarships and UQ Excellence Scholarships.

If you're completing Year 12 in 2023, or you completed Year 12 in 2022 and are on a gap year, you may be eligible to apply for a scholarship.

### Equity scholarships

UQ strongly believes all students deserve equal access to education. Equity scholarships are designed to support students from low socio-economic, disadvantaged or under-represented backgrounds.

### Study area scholarships

UQ has a diverse range of scholarships that support and encourage commencing and continuing students in particular study areas.

[scholarships.uq.edu.au](https://scholarships.uq.edu.au)

### Employability

UQ offers a variety of grants and loans to participate in a range of enriching international and domestic experiences that will enhance your employability.  
[employability.uq.edu.au/financial-support](https://employability.uq.edu.au/financial-support)

## Sporting

### Elite athlete support

UQ is an elite athlete-friendly university that supports more than 200 elite-level student-athletes to manage their sport and studies. Dedicated UQ Sport staff, in partnership with UQ, provide academic liaison support to negotiate flexible options for enrolment, assessment and course-related needs.  
[uqsport.com.au/scholarships](https://uqsport.com.au/scholarships)



### Get in early

Scholarship applications close at different times throughout 2023 – plan your applications and apply early so you don't miss out!  
[scholarships.uq.edu.au](https://scholarships.uq.edu.au)



# A truly global network



**SCHOLARSHIPS,  
BURSARIES  
AND GRANTS  
AVAILABLE**

Going on an international exchange is a life-changing experience. You could be jetting off to Copenhagen, Boston, Seoul, Osaka, Santiago — in fact, we have more than 130 partner institutes in 30+ countries.

Global experiences help you develop independence, maturity and other important life skills that enhance your employability and enrich your global mindset.

## **Semester-based exchange**

Spend a semester living and learning in another country. Living abroad is the adventure of a lifetime. You could learn a new language, live like a local, and create friendships that will last forever. Your studies will count towards your degree just as if you undertook them at UQ.

## **Short-term experiences**

If a full semester or year of exchange is not for you, you might prefer a short-term experience. You can study a course for 2-6 weeks overseas during the winter or summer break, and you may be able to get credit for it too.

## **Learn a language**

In a global economy, the ability to communicate with a wide range of people is invaluable. Undergraduate students can study a Diploma in Languages alongside any UQ program.

## **International internships**

Imagine jetting off to Tokyo, Buenos Aires, or London for an international internship. That means a real workplace, with a real role, working on real projects in other countries. Learn on the job while you enjoy exploring new neighbourhoods, discovering local delights and making lifelong friends. Some internships are offered virtually.

## **Worldwide networks**

UQ has more than 311,000 graduates living in 187 countries. Our alumni are passionate about giving back and investing in our future leaders. You can tap into this powerful network of expert support through mentoring, social experiences and professional development opportunities.

## **Global Startup AdVentures**

Learn alongside a startup in some of the world's most vibrant startup hot spots including San Francisco, Shanghai, Shenzhen, Tel Aviv and Singapore.



**Visit:**  
[study.uq.edu.au/enhance-your-employability](https://study.uq.edu.au/enhance-your-employability) to discover how you can take your studies around the globe.



**GROUP  
OF EIGHT  
AUSTRALIA**

**U21  
UNIVERSITAS 21**

**We are a member of the prestigious Group of Eight coalition in Australia and the leading global network of research universities, Universitas 21.**



# Quick reference guide

BACHELOR DEGREE IN (MAJORS LISTED UNLESS OTHERWISE SPECIFIED)	MINIMUM SELECTION THRESHOLD 2023* ATAR / IBAS	PREREQUISITES	DURATION (YEARS)	LOWEST ATAR TO RECEIVE AN OFFER 2023*		CAMPUS	QTAC CODE	SEE PAGE
				ADJ	UNADJ			
<b>Advanced Science (Honours)</b> Applied Mathematics; Archaeological Science; Biochemistry and Molecular Biology; Bioinformatics; Biomedical Science; Cell Biology; Chemistry; Coastal and Ocean Science; Computer Science; Earth Science; Ecology and Conservation Biology; Food Science and Nutrition; Food Technology; Genetics; Geographical Science; Marine Biology; Mathematics; Microbiology; Physics; Plant Science; Public Health; Statistics; Zoology	94.00 / 36.75	English, Mathematical Methods, plus 2 of Agricultural Science, Biology, Chemistry, Earth and Environmental Science, Physics or Specialist Mathematics, at least one of which must be Biology, Chemistry or Physics	4F or P	94.05	90.75	H <sup>A</sup> , S	731901	8
<b>Agribusiness</b>	73.00 / 25.75	English and General Mathematics or Mathematical Methods	3F or P	74.70	72.70	G, S	766001	28
<b>Agribusiness / Agricultural Science</b>	73.00 / 25.75	English and General Mathematics or Mathematical Methods	4F or P	73.35	71.35	G, S	766601	10
<b>Agribusiness / Wildlife Science</b>	73.00 / 25.75			78.80	77.45		766501	10
<b>Agricultural Science</b> Agronomy; Animal Science; Horticulture	73.00 / 25.75	English and General Mathematics or Mathematical Methods	3F or P	73.35	73.35	G	762019	29
<b>Biomedical Science / Science</b>	82.00 / 29.75	English, Mathematical Methods, plus one of Biology, Chemistry or Physics	4F or P	82.15	81.30	S	731211	10
<b>Biotechnology</b> Agricultural Biotechnology; Chemical and Nano Biotechnology; Medical Biotechnology; Molecular and Microbial Biotechnology; Synthetic Biology and Industrial Biotechnology Minors: Bioinformatics; Innovation and Entrepreneurship	81.00 / 29.25	English, Mathematical Methods, plus one of Biology, Chemistry or Physics	3F or P	83.05	81.05	S	731101	30
<b>Business Management / Science</b>	80.00 / 28.75	English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics	4F or P	80.30	78.30	S	710501	10
<b>Commerce / Science</b>	84.00 / 30.50	English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science or Physics	4F or P	85.75	85.75	S	711701	10
<b>Computer Science / Science</b>	84.00 / 30.50	English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics. Specialist Mathematics is recommended*	4F or P	85.65	85.25	S	733601	10
<b>Economics / Science</b>	84.00 / 30.50	English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics	4F or P	84.95	84.95	S	714301	10
<b>Engineering (Honours) / Biotechnology</b>	84.00 / 30.50	English, Mathematical Methods, plus one of Chemistry or Physics. Specialist Mathematics is recommended*	5F or P	85.15	85.15	S	717501	10
<b>Engineering (Honours) / Mathematics</b>	92.00 / 35.25	English, Mathematical Methods, plus one of Chemistry or Physics. Specialist Mathematics is recommended*	5F or P	92.20	89.95	S	717901	10
<b>Engineering (Honours) / Science</b>	84.00 / 30.50	English, Mathematical Methods, plus one of Chemistry or Physics. Specialist Mathematics is recommended*	5F or P	84.00	82.00	S	717101	10
<b>Environmental Management (Honours)</b>	78.00 / 27.75	English	4F or P	78.65	77.15	S	705101	31
<b>Environmental Science</b>	80.00 / 28.75	English, Mathematical Methods and one of Biology, Chemistry, Earth and Environmental Science or Physics	3F or P	80.95	80.95	S	738001	32
<b>Information Technology / Science</b>	84.00 / 30.50	English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics	4F or P	90.00	89.90	S	733301	10
<b>Mathematics</b> Applied Mathematics; Data Analytics and Operations Research; Mathematical Physics; Pure Mathematics; Statistics	92.00 / 35.25	English and Mathematical Methods. Specialist Mathematics is recommended	3F or P	92.85	89.85	S	714401	34

- < Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.
- > Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.

**Fee Band** See table on page 41 for indicative fees.

**Prerequisites** All prerequisites are at Year 12 level with a minimum grade of C over four semesters.

**Duration** The time normally taken to complete a program, according to the mode in which it is undertaken. F = full-time; P = part-time.

**Location** S = UQ St Lucia, G = UQ Gatton, H = UQ Herston



BACHELOR DEGREE IN (MAJORS LISTED UNLESS OTHERWISE SPECIFIED)	MINIMUM SELECTION THRESHOLD 2023* ATAR / IBAS	PREREQUISITES	DURATION (YEARS)	LOWEST ATAR TO RECEIVE AN OFFER 2023*		CAMPUS	QTAC CODE	SEE PAGE
				ADJ	UNADJ			
Mathematics / Arts	92.00 / 35.25	English and Mathematical Methods. Specialist Mathematics is recommended	4F or P	94.15	92.15	S	714501	10
Mathematics / Business Management	92.00 / 35.25			N/A	N/A		714711	
Mathematics / Commerce	92.00 / 35.25			93.95	91.95		714601	
Mathematics / Computer Science	92.00 / 35.25			93.10	89.95		714421	
Mathematics / Economics	92.00 / 35.25			94.85	93.25		714701	
Mathematics / Education (Secondary)**	92.00 / 35.25			93.00	91.00		714801	
Mathematics / Science	92.00 / 35.25	English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics. Specialist Mathematics is recommended		92.15	88.20		714901	10
Music (Honours) / Science	80.00 / 28.75	English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science or Physics, and an audition/ interview; a pass in a test of practical ability and musicianship skills. Selection is based on audition, interview and academic results	5F	84.50	84.50	S	723402	10
Occupational Health and Safety Science (Honours)	78.00 / 27.75	English, Mathematical Methods, plus one of Chemistry, Physics or Biology	4F or P	96.45	96.45	S	729201	35
<b>Science</b> Applied Mathematics; Archaeological Science; Astrophysics; Biochemistry and Molecular Biology; Bioinformatics; Biomedical Science; Biophysics; Cell Biology; Chemical Biology*; Chemistry; Coastal and Ocean Science; Computer Science; Data Science*; Developmental Biology*; Earth Science; Ecology and Conservation Biology; Entomology*; Food Science and Nutrition; Food Technology; Genetics; Geographical Science; Geographical Information Science*; Human Anatomy*; Human Physiology*; Immunology*; Marine Biology; Mathematics; Microbiology; Microbiology, Infection and Immunity*; Neuroscience*; Pharmacology*; Physics; Plant Science; Psychology; Public Health; Statistics; Zoology	80.00 / 28.75	English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science or Physics	3F or P	80.00	76.00	S	731001	9
Science / Arts	80.00 / 28.75	English, Mathematical Methods plus one of Biology, Chemistry, Earth and Environmental Science, or Physics	4F or P**	80.00	78.00	S	731501	10
Science / Education (Secondary)**	80.00 / 28.75			81.15	81.15		731302	
Science / Journalism	80.00 / 28.75			85.45	85.45		731602	
Science / Laws (Honours)	97.50 / 40.00		5F or P	97.50	94.10		731401	
Veterinary Science (Honours)***	99.00 / 42.50	English, Chemistry, Mathematical Methods, plus one of Physics or Biology and Casper test***	5F	99.00	95.00	G	736002	36
Veterinary Technology	75.00 / 26.50	English and either General Mathematics or Mathematical Methods. Biology, Chemistry and/ or Physics are recommended	3F or P**	75.10	72.00	G	787309	37
Wildlife Science	73.00 / 25.75	English and either General Mathematics or Mathematical Methods. Biology, Chemistry and/ or Physics are recommended	3F or P	73.40	73.40	G	787209	38

## Credit exemptions for IB students

IB subject	Minimum grade required	Credit or exemptions
Biology (HL)	6	Specified credit for BIOL1020
Chemistry (HL)	6	Specified credit for CHEM1100 or CHEM1004
English (HL)	6	Specified credit for ENGL1800
Mathematics (SL)	4	Exemption from MATH1040
Mathematics (HL)	3	Exemption from MATH1040 and MATH1050
Physics (SL)	6	Exemption from PHYS1001
Physics (HL)	6	Specified credit for PHYS1001 and exemption from PHYS1002

^ Only the Public Health major is offered at the Herston campus.

^^ Available as an extended major only.

x Available as a minor only.

\* Students without Specialist Mathematics (or equivalent) may be required to undertake preparatory courses beyond the 64 units for the program, and may not be able to complete the program in the minimum time frame without overloading or undertaking summer study.

\*\* Students may take the program on a part-time basis, but the final year must be commenced in Semester 1 and must be taken on a full-time basis.

\*\*\* Applicants must complete a situational judgement test that recognises attributes other than academic performance. See [study.uq.edu.au](https://study.uq.edu.au)



**Study and training after  
Year 10 linked to better  
employment prospects**

Australian Jobs Report 2021

# UQ Skills vocational training

Access funded training at school or post-school. Gain additional skills and boost your career prospects across a range of industry sectors.

## Even more pathways to careers

Whether you're looking for an entry-level qualification to start your career, or you need to build your technical and business skills in order to move into management roles, UQ Skills has a range of national accredited and unaccredited programs to help you achieve your specific career goals.

UQ Skills is a Registered Training Organisation (RTO #1511) offering government and industry-subsidised training, and fee-for-service study options across a range of sectors, including:

- Veterinary nursing and animal care
- Agriculture and rural operations
- Business and vocational
- Engineering and manufacturing
- Traineeships and apprenticeships.

Our training is offered online, face-to-face at UQ's Gatton and St Lucia campuses, and at partnership locations Australia wide.

Visit the UQ Skills website to see the latest courses on offer.

## Study at school (Vocational Education and Training in Schools)

Gain essential skills and knowledge while still at school as part of UQ Skills' government funded Certificate II programs for Year 10, 11 and 12 students.

These nationally recognised, entry-level programs prepare you for the workforce and open up pathways for possible further study. They also can count towards your Queensland Certificate of Education (QCE).

Certificate III programs, while not government funded, are offered at a low fee-for-service price. These certificate programs can give you the skills to jump right into employment in the rural and animal care industries.

## Study after leaving school

Equip yourself with the high-calibre skills you need to excel with our innovative applied education and training programs – ranging from entry-level certificates through to advanced diplomas.

Learn from professionally qualified, industry experts who will teach you strategies in analysing information and complex decision-making.

If you already have a certificate qualification, gain the advanced technical skills and business-related knowledge required to move into middle management with a Diploma in Procurement and Contracting (PSP50616) or Agribusiness Management (AHC51419).

## Need to fast-track your skills?

UQ Skills offers short, accredited training programs in areas like occupational health and safety leadership and farm business management which provide credit towards further study.

These one- to 2-week programs have online theory components followed by a few days of practical training.

Or, if you already have skills you've developed through prior work experience, have these formally recognised so they count towards entry into other programs. UQ Skills can help you through this skills recognition process to access further training and formalise your industry experience.

Let UQ Skills be your pathway into a career. Contact us to find out more.



**UQSkills**

**UQ Skills**

+61 7 5460 1353

[uqskills@uq.edu.au](mailto:uqskills@uq.edu.au)



# Program table explained

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023 ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023		DURATION	START SEMESTER	CAMPUS	HONOURS	DUAL PROGRAM AVAILABLE	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED						

## QTAC CODE

A unique code number assigned by Queensland Tertiary Admissions Centre (QTAC) to each individual undergraduate university program. You will need to use this number on your QTAC application.

## UQ CODE

A unique identifying number assigned by UQ for each academic program.

## MINIMUM SELECTION THRESHOLD 2023 ATAR / IBAS

The minimum (adjusted) selection threshold is the minimum score that was considered for an offer of a place to all applicants.

## IBAS

International Baccalaureate Admission Score.

## ATAR

The Australian Tertiary Admission Rank (ATAR) is the standard measure of overall school achievement used in all Australian states and territories. It is a rank indicating a student's position overall relative to other students. The ATAR is expressed on a 2,000-point scale from 99.95 (highest) down to 30.00, in increments of 0.05. The ATAR replaced the Overall Position (OP) as the standard pathway to tertiary study for Queensland Year 12s in 2021.

## ADJUSTMENT FACTORS

Previously referred to as 'bonus points', these are a numerical value added to or used in combination with an ATAR. Common adjustment factors may include subject adjustments, enrichment studies, or educational disadvantage.

## Adjusted

The lowest ATAR to which an offer was made to recent school leavers including any adjustment factors that may have been applied.

## Unadjusted

The lowest 'raw' ATAR to which an offer was made to recent school leavers, excluding any adjustment factors.

## DURATION

The time it takes to complete a program when it is studied full-time.

## Full-time

The standard study load is 8 units per semester. Full-time study is 75 per cent or more of the standard study load (i.e. 6 units per semester for most programs).

## Part-time

Part-time study load is less than 75 per cent of the standard study load (i.e. fewer than 6 units per semester for most programs).

## START SEMESTER

The academic year at UQ is divided into 2 main semesters. Semester 1 starts at the end of February and Semester 2 starts at the end of July.

## CAMPUS

One of 3 UQ teaching sites where the majority of lectures are held.

## HONOURS

At UQ, honours may be awarded as a one-year bachelor's honours degree after you have completed a bachelor's degree, or as a single bachelor's honours degree typically taking 4 years of study. Some undergraduate programs allow eligible students to transfer to a bachelor's honours degree at a defined point in the bachelor's degree. This box shows whether honours is available with a program.

## DUAL PROGRAM

Two UQ degree programs undertaken at the same time (sometimes known as dual / parallel / combined / double degree). This box lists dual programs you can choose to study with a program.

## ADMISSION REQUIREMENTS

Some programs require you to have completed specific subjects (or their equivalent) at school. Some also have additional requirements.

## Prerequisite subject equivalents – interstate, International Baccalaureate and New Zealand

QLD	ACT	NSW	SA/NT	TAS	VIC	WA
Min Grade of C in Units 3 and 4	124+ (Scale score)	Performance Band = 3+	C+ or better (from Publicly Examined Subjects [PES] only)	SA or better (Exit level of achievement)	26 or better (Study score)	51+ (Subject scaled mark)
English or English as an Additional Language or Literature or English & Literature Extension	<ul style="list-style-type: none"> <li>English</li> <li>Language and Literature</li> <li>World Literature</li> <li>ESL (English as a Second Language)</li> </ul>	<ul style="list-style-type: none"> <li>English Standard</li> <li>English Advanced</li> <li>English as an Additional Language or Dialect</li> <li>English Extension 1 or 2</li> </ul>	<ul style="list-style-type: none"> <li>English</li> <li>English Studies</li> <li>English as a Second Language Studies</li> <li>English</li> <li>Communication</li> <li>English Literacy Studies</li> </ul>	<ul style="list-style-type: none"> <li>English</li> <li>Literature</li> <li>Writer's Workshop</li> <li>World Literature</li> <li>English Studies</li> <li>English</li> <li>Communications</li> </ul>	<ul style="list-style-type: none"> <li>English</li> <li>English Language</li> <li>Literature</li> <li>English (EAL or ESL)</li> </ul>	<ul style="list-style-type: none"> <li>WACE English</li> <li>English (Stage 2 or 3)</li> <li>English for ESL Students</li> <li>English Literature</li> <li>English Course</li> <li>English as an Additional Language or Dialect</li> </ul>
General Mathematics	<ul style="list-style-type: none"> <li>Mathematical Applications</li> </ul>	<ul style="list-style-type: none"> <li>Maths Standard 2 (2U)</li> </ul>	<ul style="list-style-type: none"> <li>General Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>General Maths</li> <li>Mathematics Applied</li> <li>Mathematics Applied (SS5C)</li> <li>Math Methods – Foundation</li> </ul>	<ul style="list-style-type: none"> <li>Further Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>Maths I</li> <li>Maths IV</li> <li>Mathematical Apps ATAR</li> <li>Modelling with Mathematics</li> <li>WACE Mathematics 2C/2D</li> <li>WACE Mathematics Stage 3A/B</li> <li>Discrete Mathematics</li> </ul>
Mathematical Methods	<ul style="list-style-type: none"> <li>Specialist Mathematics</li> <li>Mathematical Advanced Extended</li> <li>Further Mathematics</li> <li>Mathematical Methods</li> <li>Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics Advanced (2U)</li> </ul>	<ul style="list-style-type: none"> <li>Mathematical Methods</li> <li>Mathematical Studies</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics Methods (SS5C)</li> <li>Maths Stage 2 or 3</li> <li>Algebra and Geometry</li> <li>Analysis and Statistics</li> <li>Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>Mathematical Methods</li> </ul>	<ul style="list-style-type: none"> <li>Calculus</li> <li>Applicable Mathematics</li> <li>Maths II</li> <li>Mathematics Stage 3C/D</li> <li>Mathematics Specialist Stage 3A/B</li> </ul>
Specialist Mathematics	<ul style="list-style-type: none"> <li>Specialist Mathematics</li> <li>Mathematics Advanced Extended</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics Extension 1 and 2</li> </ul>	<ul style="list-style-type: none"> <li>Specialist Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics Specialised (SS5C)</li> <li>Maths Stage 2 and 3</li> <li>Maths Specialised (SS5C)</li> </ul>	<ul style="list-style-type: none"> <li>Specialist Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>Applicable Mathematics</li> <li>Mathematics III</li> <li>Mathematics Specialist Stage 3C/D</li> <li>Mathematics Specialist ATAR</li> </ul>
Physics	<ul style="list-style-type: none"> <li>Physics</li> <li>Electronics</li> </ul>	<ul style="list-style-type: none"> <li>Science (4U)</li> <li>Physics (2U to 4U)</li> <li>Physics</li> <li>Science Extension</li> </ul>	<ul style="list-style-type: none"> <li>Physics</li> </ul>	<ul style="list-style-type: none"> <li>Physics (SS5C)</li> <li>Applied Science – Physical Sciences</li> </ul>	<ul style="list-style-type: none"> <li>Physics</li> </ul>	<ul style="list-style-type: none"> <li>Physics</li> <li>Physics ATAR</li> <li>Physical Science</li> <li>Physics (Stage 3)</li> </ul>
Chemistry	<ul style="list-style-type: none"> <li>Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>Science (3U or 4U)</li> <li>Chemistry (2U)</li> <li>Chemistry</li> <li>Science Extension</li> </ul>	<ul style="list-style-type: none"> <li>Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>Chemistry</li> <li>Chemistry ATAR</li> <li>Chemistry (Stage 3)</li> </ul>
Biological Sciences Marine Science	<ul style="list-style-type: none"> <li>Biology</li> <li>Human Biology</li> <li>Biological Science</li> </ul>	<ul style="list-style-type: none"> <li>Biology (2U to 4U)</li> <li>Biology</li> <li>Science Extension</li> </ul>	<ul style="list-style-type: none"> <li>Biology</li> </ul>	<ul style="list-style-type: none"> <li>Biology</li> </ul>	<ul style="list-style-type: none"> <li>Biology</li> </ul>	<ul style="list-style-type: none"> <li>Biology</li> <li>Human Biology</li> <li>Biology ATAR</li> <li>Biological Sciences (Stage 3)</li> <li>Human Biol Sciences (Stage 3)</li> <li>Human Biology ATAR</li> </ul>
Earth & Environmental Science	<ul style="list-style-type: none"> <li>Earth &amp; Environmental Science</li> <li>Geology</li> </ul>	<ul style="list-style-type: none"> <li>Earth &amp; Environmental Science</li> <li>Science Extension</li> </ul>	<ul style="list-style-type: none"> <li>Earth &amp; Environmental Science</li> </ul>	n/a	n/a	<ul style="list-style-type: none"> <li>Earth &amp; Environmental Science ATAR</li> </ul>

# How you will learn

At UQ you'll access a range of learning environments to help you make the most of your studies.

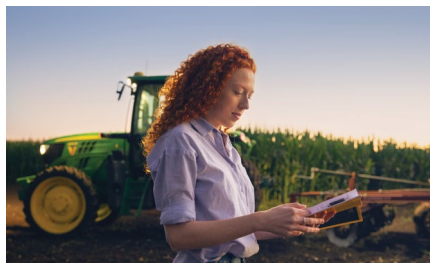
## Fieldwork and Fieldtrips

Collect data in environments outside the classroom or laboratory.



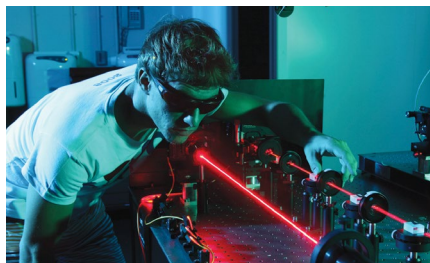
## Work Integrated Learning and Clinical Experiences

Gain a competitive edge in the job market, build your interpersonal skills and professional networks.



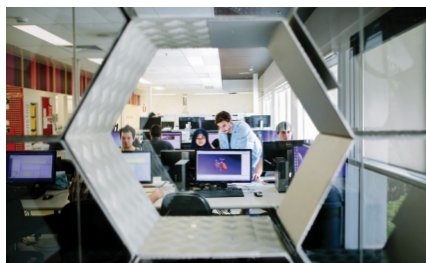
## Research Experiences

Learn to think and reason critically, develop innovative ideas, analyse data and clearly explain your results as a professional scientist.



## Collaborative Learning

Explore, discuss and debate your course materials and develop your critical thinking and presentation skills in lectures, tutorials and workshops.

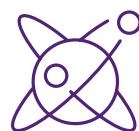


## Practicals

'Hands-on' classes allow you to apply the theories learnt in your courses.







**Transform your deep interest  
in science into a rewarding  
research career**

Bachelor of

# Advanced Science (Honours)

Challenge and develop your critical thinking and analytical skills in this elite 4-year program, and prepare yourself for a rewarding career in science research and industry.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023* ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023*		DURATION	START SEMESTER	CAMPUS	HONOURS	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED					
731901	2516	94.00 / 36.75	94.05	90.75	4 years full-time (or part-time equivalent)	1, 2	St Lucia	Part of standard program, awarded based on grade point average of specific courses	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); plus two of Agricultural Science, Biology, Chemistry, Earth and Environmental Science, Physics or Specialist Mathematics (Units 3 & 4, C), at least one of which must be Biology, Chemistry or Physics

See 'Program table explained' on page 7

\* Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

\* Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.

## Why Advanced Science (Honours) at UQ?

The Bachelor of Advanced Science (Honours) is a 4-year specialised program that will challenge you to become a high-achieving future leader in science. Pursue your scientific passion while gaining extensive research experience under the guidance of prominent research scientists and thought-leaders.

Throughout your program you'll work alongside researchers and collaborate with your peers on cutting-edge research projects to challenge your problem-solving capabilities and develop your research, teamwork, critical thinking, analytical and communication skills.

## What you will study

The program's structure is flexible and allows you a wide choice of study options to maximise your career opportunities.

In your first year you'll build your knowledge-base and practical skills by taking courses across a broad range of scientific disciplines.

You'll then choose a specialisation and develop your learning through advanced courses.

Add to your specialisation with an additional major or minor(s) across a broad range of scientific fields. UQ offers one of the broadest selections of science disciplines in Australia. Choose from 23 majors and 32 minors.

Alternatively, follow your curiosity outside the world of science and diversify your knowledge by choosing from 46 minors in other study areas, including languages, communication, design, economics and many more.

In your final year, you will complete a research project in your chosen specialisation. In some cases this may also be combined with advanced coursework.

This project will give you in-depth training for a research career, as well as building your skills in scientific analysis, critical thinking, writing and communication, which are in demand in both academic and corporate sectors.

You'll graduate with a respected honours qualification, with advanced knowledge and skills that will set you apart in a competitive job market, enhance your leadership potential, and provide a pathway into future research and learning.

## Careers

You will be sought by industry and research organisations for your problem-solving abilities. You will find expanding career possibilities in the government, health, corporate, environmental and financial sectors and in research organisations globally. You'll be able to prepare for a diverse range of roles such as a biochemist, embryologist, palaeo-environmental scientist, biodiversity project officer, exploration technician, biomedical scientist, wildlife management officer, mine geologist, quantitative researcher, or materials scientist.

Advanced Science is also an excellent pathway into medicine or a higher degree by research (HDR) such as a PhD.

## SAMPLE COURSES

*In addition to core courses, choose from over 30 advanced courses including:*

Advanced Biochemistry and Molecular Biology  
Advanced Bioinformatics 1: Introduction  
Advanced Biostatistics  
Advanced Calculus and Linear Algebra II  
Advanced Complex Analysis  
Advanced Ecology  
Advanced Fields in Physics I  
Advanced Fields in Physics II  
Advanced Genetics  
Advanced Genomics  
Advanced Inorganic Chemistry  
Advanced Integrative Cell and Tissue Biology  
Advanced Intermediate Chemistry 1  
Advanced Intermediate Chemistry 2  
Advanced Mathematical Statistics  
Advanced Microbes and Human Health  
Advanced Microbiology and Immunology  
Advanced Molecular Cell Biology I  
Advanced Molecular Cell Biology II  
Advanced Organic Chemistry  
Advanced Plant Biology  
Advanced Plant Science Project  
Advanced Quantum Mechanics I  
Advanced Research Experience in Biology  
Advanced Statistical Mechanics  
Advanced Structural and Synthetic Biology  
Advanced Techniques in Biomedical Science  
Advanced Zoology  
Current Topics in Plant Science  
Mathematical Analysis and Advanced Topics  
Principles of Biomedical Research

**For more information**

Visit [study.uq.edu.au](http://study.uq.edu.au)  
or scan the QR code





**UQ offers you one of the widest choices of science disciplines in Australia**

Bachelor of

# Science

Develop your interdisciplinary scientific knowledge and the key practical skills to address today's global challenges. With a wide range of majors to choose from, this flexible program gives you the freedom to find or follow your scientific passion and to pursue your career goals.

OTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023* ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023*		DURATION	START SEMESTER	CAMPUS	HONOURS	DUAL PROGRAM AVAILABLE	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED						
731001	2461	80.00 / 28.75	80.00	76.00	3 years full-time (or part-time equivalent)	1, 2	St Lucia, Herston (Public Health major only)	Additional year of study	Arts, Biomedical Science, Business Management, Commerce, Computer Science, Economics, Education (Secondary), Engineering (Honours), Information Technology, Journalism, Laws (Honours), Mathematics, Music (Honours)	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); and one of Biology, Chemistry, Earth and Environmental Science or Physics (Units 3 & 4, C)

See 'Program table explained' on page 7

\* Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

> Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the Lowest ATAR excluding any adjustment factors.



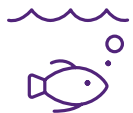
The Bachelor of Science provides the perfect balance of a defined sequence of study combined with flexible course options. Access an extensive range of science courses enhanced by innovative research to bring the future into your learning.



Graduate with highly employable technical skills, and advanced independent thinking and communication skills. Use a range of courses to tailor your program to your individual interests and career goals.



Gain the valuable practical skills to work confidently in a range of labs, including wet, dry and clinical labs; PC2 and PC3 labs; and animal diagnostic, operating and skills-training labs.



Access fieldwork opportunities in locations such as the Great Barrier Reef, K'gari (Fraser Island), Minjerribah (North Stradbroke Island), national parks and outback Queensland.

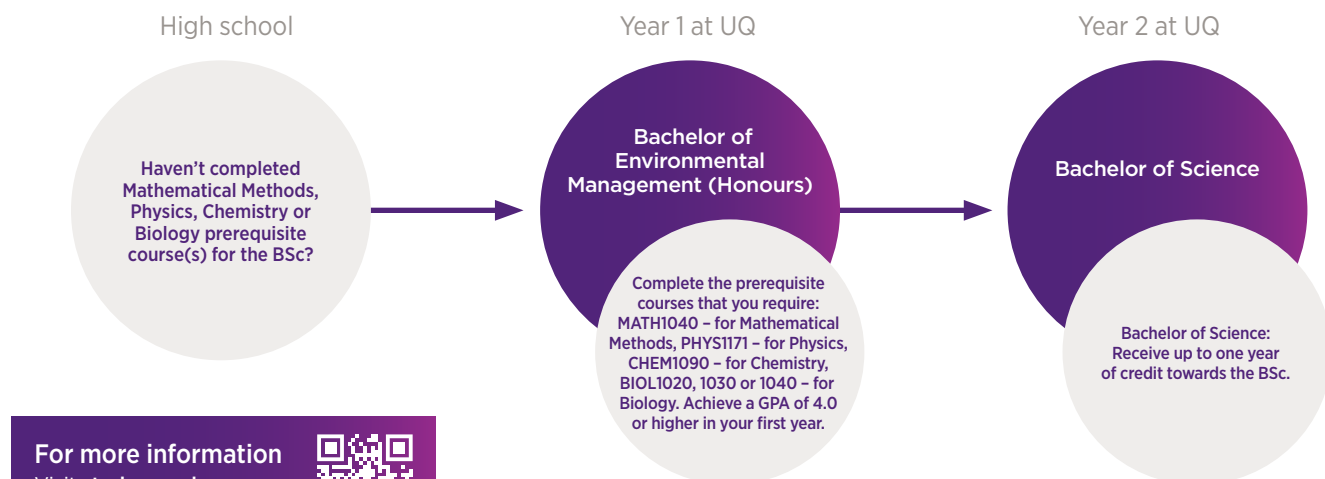


Gain relevant, real-world experience through employability and work integrated learning such as internships, industry placements, research projects and international study.



The Bachelor of Science is recognised as excellent preparation for studying Medicine and to advance into a medical career. Alternatively, it offers a pathway to improve your entry rank for programs such as Engineering, Veterinary Science or Pharmacy.

Don't have the prerequisites?



**For more information**

Visit [study.uq.edu.au](https://study.uq.edu.au)  
or scan the QR code





# Double your opportunities

Improve your employment prospects and broaden your skills and knowledge by studying 2 programs at the same time.

## Bachelor of Science (BSc) + another bachelor's degree

Enrol in a dual program to complete 2 degrees in a shorter time than completing each program separately.

Dual programs at UQ have unique program codes, and you must satisfy prerequisite and entry score requirements. Domestic applicants must apply through the normal QTAC application process. International applicants should visit [study.uq.edu.au](http://study.uq.edu.au) for application details.



If you do a **Bachelor of Science (single major)**, you complete 8 courses per year and your study plan may look like this:

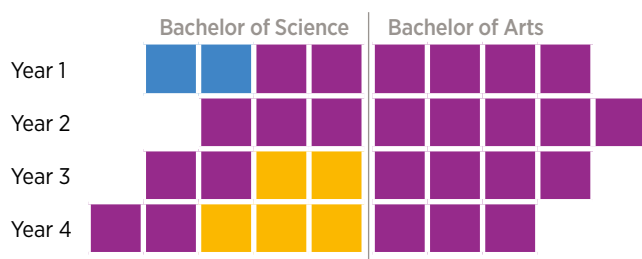


If you do a **Bachelor of Arts (with 2 majors)**, you complete 8 courses per year and your study plan may look like this:



## How does a dual degree work?

If you did the **Bachelor of Science/Bachelor of Arts dual degree**, you still complete 8 courses per year and your study plan may look like this:



QTAC CODE	DURATION (YEARS)	MINIMUM SELECTION THRESHOLD 2023 <sup>c</sup> ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023 <sup>a</sup>	
			ADJUSTED	UNADJUSTED
Biomedical Science / Science (BBIomedSc/BSc)				
731211	4	82.00 / 29.75	82.15	81.30
Business Management / Science (BBusMan/BSc)				
710501	4	80.00 / 28.75	80.30	78.30
Commerce / Science (BCom/BSc)				
711701	4	84.00 / 30.50	85.75	85.75
Computer Science / Science (BCompSc/BSc)				
733601	4	84.00 / 30.50	85.65	85.25
Economics / Science (BEcon/BSc)				
714301	4	84.00 / 30.50	84.95	84.95
Engineering (Hons) / Science (BE(Hons)/BSc)				
717101	5	84.00 / 30.50	84.00	82.00
Information Technology / Science (BInfTech/BSc)				
733301	4	84.00 / 30.50	90.00	89.90
Mathematics / Science (BMath/BSc)				
714901	4	92.00 / 35.25	92.15	88.20
Music (Hons) / Science (BMus(Hons)/BSc) <sup>m</sup>				
723402	5	80.00 / 28.75	84.50	84.50
Science / Arts (BSc/BA)				
731501	4	80.00 / 28.75	80.00	78.00
Science / Education (Secondary) (BSc/BEd(Sec))*				
731302	4	80.00 / 28.75	81.15	81.15
Science / Journalism (BSc/BJ)				
731602	4	80.00 / 28.75	85.45	85.45
Science / Laws (Hons) (BSc/LLB(Hons))				
731401	5	97.50 / 40.00	97.50	94.10

\* Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

> Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.

\* Students may take the program on a part-time basis, but the final year must be commenced in Semester 1 and must be taken on a full-time basis.

<sup>m</sup> Selection based on audition, interview and academic results.

## Save time

Graduate with 2 bachelor's degrees in as little as 4 years – a much shorter time than it would take to study both programs separately.

## Strike a balance

Why compromise? Get study/life balance by combining programs that cover career aspirations and topics you're passionate about. Dual program students appreciate the diversity offered in their 2 different programs.

13  
science dual program  
combinations available

# BSc majors and minors

## How do I choose an area of specialisation in the BSc?

In the BSc, you will complete a specialisation – whether it is a major, an extended major or a major in combination with minors – in your chosen area of science. Tailor your BSc study plan according to your interests and explore the flexibility to incorporate up to one-third of your courses from outside science.

### Bachelor of Science specialisation plans

Some possible combinations include:

- one major
- one major + one minor
- one major + 2 minors
- 2 majors
- one extended major
- one extended major + one minor.

*\* additional plan combinations may be available.*

Dual program options are also available (e.g. BA / BSc)

#### NOTE

It is not possible to do a major / extended major / minor in the same discipline (e.g. a Chemistry extended major + Chemistry minor is not possible).

However, majors / extended majors / minors can be in different fields.



#### An example study plan two majors

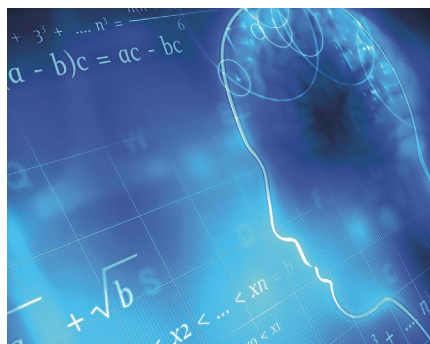
Year 1	Core	Core	Major	Major	Major	Second Major	Second Major	Second Major
Year 2	Major	Major	Major	Second Major	Second Major	Second Major	Electives	Electives
Year 3	Major	Major	Major	Second Major	Second Major	Second Major	Second Major	Second Major

#### An example study plan for one major + 2 minors

Year 1	Core	Core	Major	Major	Major	Electives	Minor	Second Minor
Year 2	Major	Major	Major	Electives	Electives	Electives	Minor	Second Minor
Year 3	Major	Major	Major	Major	Minor	Minor	Second Minor	Second Minor

	MINOR (8 UNITS)	MAJOR (16 UNITS)	EXTENDED MAJOR (24 UNITS)
Applied Mathematics	✓	✓	✓
Archaeological Science	✓	✓	
Astrophysics	✓		
Biochemistry and Molecular Biology	✓	✓	✓
Bioinformatics	✓	✓	
Biomedical Science		✓	✓
Biophysics	✓		
Cell Biology Extended	✓	✓	✓
Chemical Biology	✓		
Chemistry	✓	✓	✓
Coastal and Ocean Science	✓	✓	✓
Computational Science	✓		
Computer Science	✓	✓	✓
Data Science	✓		
Developmental Biology	✓		
Earth Science	✓	✓	✓
Ecology and Conservation Biology	✓	✓	✓
Entomology Minor	✓		
Food Science and Nutrition		✓	
Food Technology	✓	✓	
Genetics	✓	✓	✓
Geographical Science		✓	✓
Geographical Information Science	✓		
Human Anatomy	✓		
Human Physiology	✓		
Immunology	✓		
Marine Biology	✓	✓	
Mathematics	✓	✓	✓
Microbiology	✓	✓	
Microbiology, Infection and Immunity			✓
Neuroscience	✓		
Pharmacology	✓		
Physics	✓	✓	✓
Plant Science	✓	✓	
Psychology Extended	✓	✓	✓
Public Health		✓	
Statistics	✓	✓	
Zoology	✓	✓	✓

### BSc Extended Major/Major/Minor St Lucia



## Applied Mathematics

Apply new knowledge to shape the future of everyday life.

### Study plan highlights

- Choose from over 60 courses in mathematics and statistics.
- Learn advanced mathematical methods and how to develop creative and practical solutions.
- Study applied mathematical analysis, mathematical modelling and numerical methods used in computational science.
- Model optimal planning scenarios in natural resources, biological science and engineering.
- Gain valuable, practical experience through industry placements and work-integrated learning opportunities.
- Develop your technical skills and build your employment networks.

### Sample courses

- Applied Mathematical Analysis
- Methods and Models of Applied Mathematics
- Natural Resource Mathematics
- Operations Research and Mathematical Planning
- Scientific Computing.

### Careers

Demand is high in financial and insurance services, public administration and safety, professional and technical services, logistics, information technology, data science, and education and training. Be employed in industry, government or community organisations as a:

- quantitative researcher
- data engineer
- financial analyst
- data scientist or algorithm specialist
- mathematical modeller
- simulation specialist in engineering
- meteorologist.

### BSc Major/Minor St Lucia



## Archaeological Science

Discover the development of civilisation and the history of human-environment relationships.

### Study plan highlights

- Examine human evolution and how humans have interacted and survived in changing environments.
- Apply the latest scientific approaches to study globally significant issues.
- Develop and apply your knowledge through theory-based and practical learning.
- Engage in practical and field-based courses using surveying, excavation and post-excavation analysis.
- Volunteer in lab and field-based research projects to gain additional practical skills.
- Expand your core knowledge with courses in geography, earth science, biology, chemistry or psychology.
- Study with leaders who are setting the national benchmarks for archaeology education in Australia.
- Add to core skills with studies in geography, earth science, biology or chemistry.

### Sample courses

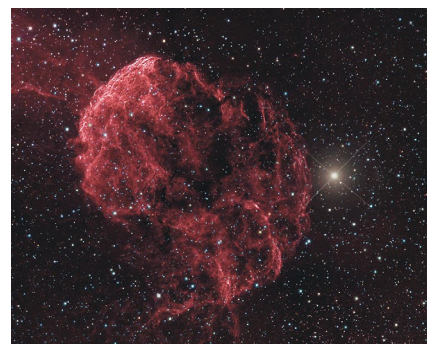
- Field Archaeology
- People, Fire and Environment
- Plants and Archaeology: Food, fuel, foraging and farming in the human past
- Science in Archaeology
- Sedimentology and Ancient Environments.

### Careers

Find employment in universities, government agencies, museums, tourism, laboratories and commercial consultancies in:

- cultural heritage management
- forensic archaeology
- climate change research and monitoring
- university teaching and research.

### BSc Minor St Lucia



## Astrophysics

Deepen your understanding of the universe led by globally recognised researchers.

### Study plan highlights

- Examine the theories and fundamental laws behind how matter and radiation are created, galaxies and planetary systems are formed, and environments for life are developed.
- Study the physical processes behind the structure of the Milky Way, star formation, stellar atmospheres, gravitational waves and the cosmic microwave background.
- Access specialised computing facilities and astrophysics tools to build computer simulations of the universe.
- Investigate the 'big questions' in modern astrophysics and cosmology, including dark energy and dark matter, the physics of the very early universe, black holes and galaxy formation.
- Combine a minor in astrophysics with a major in physics to prepare for a research career in astrophysics or other scientific fields.

### Sample courses

- Electromagnetism and Modern Physics
- Extragalactic Astrophysics and Cosmology
- Mechanics and Thermal Physics
- Space Science and Stellar Astrophysics.

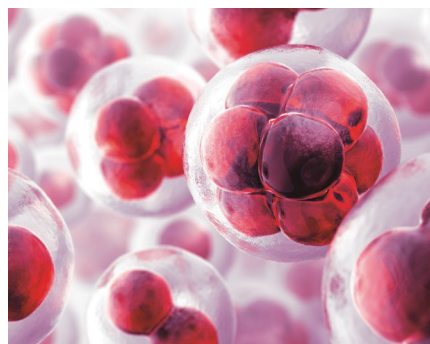
### Careers

Demand for qualified astrophysicists is increasing and the Australian Civil Space Strategy 2019–2028 will create 20,000 space industry roles by 2030. Find employment in:

- banking or financial analysis
- management consulting
- medical physics
- mining or the environment
- satellite communications
- aerospace engineering
- data science
- machine learning.



## Extended Major/Major/Minor St Lucia



## Biochemistry and Molecular Biology

Examine the chemical basis of life and how cells are built up from biological molecules.

### Study plan highlights

- Study the molecules, systems and chemical processes of all living organisms.
- Investigate the fundamental causes of life-threatening diseases.
- Visualise the future in synthetic biology, biotechnology, proteomics, genomics, bioinformatics, genetic engineering and drug design.
- Explore the latest applications in eco-friendly industrial processes and sustainable food production.
- Discover what drives current research into vaccines and medicines.
- Gain extensive practical laboratory experience and access specialised seminars from award-winning lecturers.
- Learn about and apply the latest industrially relevant scientific techniques.

### Sample courses

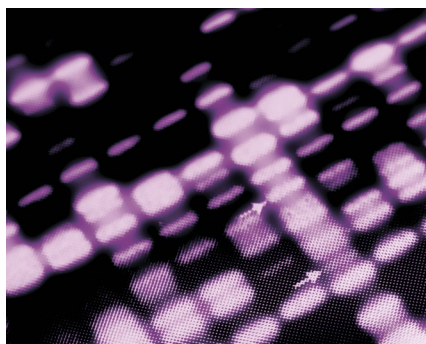
- Biochemistry and Molecular Biology
- Genetics
- Molecular Cell Biology
- Chemical Biology
- Structural and Synthetic Biology.

### Careers

Work in the health, synbio, biotechnology, pharmaceutical, environmental, agricultural, or university sectors as a:

- research biochemist
- synthetic biologist
- plant molecular biologist
- genetic engineer
- clinical biochemist
- drug designer
- vaccine developer.

## BSc Major/Minor St Lucia



## Bioinformatics

Learn how to translate complex biological data into meaningful information.

### Study plan highlights

- Develop your knowledge in computer science, genomics, proteomics and molecular biology.
- Gain skills in machine learning, statistics and specialised knowledge in data management.
- Build knowledge in computational modelling and intelligent systems involving big data.
- Learn to apply your knowledge to develop new innovations or discoveries in the biological sciences.
- Combine Bioinformatics with other majors to solve interdisciplinary problems in the life sciences.

### Sample courses

- Bioinformatics I: Introduction
- Genetics
- Genomics
- High-Performance Computing
- Structural and Synthetic Biology.

### Careers

A worldwide shortage of trained bioinformaticians and computational biologists means there's high demand for your interdisciplinary skills.

Work in pharmaceutical, biotechnology and medical technology companies, research organisations and governments.

Find employment as a:

- bioinformatician
- clinical data manager
- geneticist
- research scientist
- biomedical computer scientist.



*“I’m a bioinformatician within a development biology and stem cell lab that generates a large amount of genetics data in relation to heart development and function. My role is to analyse this data, determine if it contains any interesting patterns, and what biological significance any patterns may have.”*

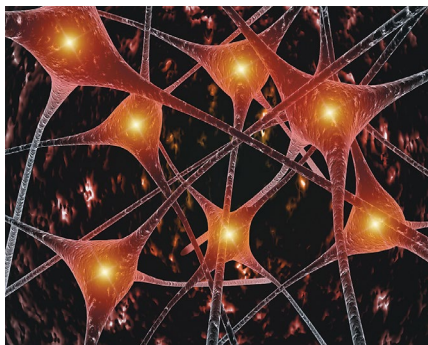
*In my current job I get to work on some pretty interesting and varied research projects. Particularly in genetics at the moment, the technological developments are allowing for huge amounts of new and exciting data to be generated, and bioinformatics plays a critical role in the development of methods for analysing such data.”*

### Ralph Patrick

Bachelor of Science (Honours), PhD, Bioinformatics

Post-doctoral scientist, Victor Chang Cardiac Research Institute

## BSc Extended Major/Major St Lucia



### Biomedical Science

Understand the complex relationship between mind, body and disease.

#### Study plan highlights

- Examine current techniques to diagnose disease, evaluate the effectiveness of treatment, and to research the causes and cures of disease.
- Gain a broad foundation in biology, chemistry and mathematics and their role in modern medicine.
- Expand your knowledge of anatomy, developmental biology, human genetics, immunology and infectious diseases, neuroscience, pharmacology and physiology.
- Apply your knowledge in practical sessions to refine your laboratory skills.
- Work alongside researchers and healthcare professionals in research placements.
- Learn to conduct medical research trials and test the effectiveness of treatments.
- Access lecturers and researchers at the forefront of the latest biomedical breakthroughs.
- A major in Biomedical Science is an established pathway for graduate entry to the Doctor of Medicine and other health programs.

#### Sample courses

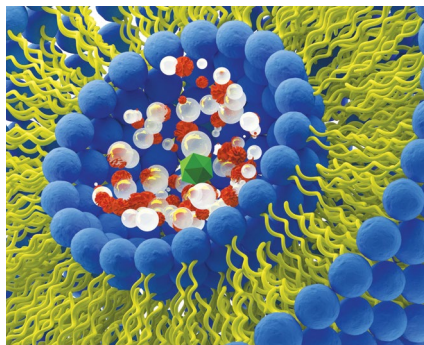
- Biostatistics and Experimental Design
- Human Anatomy
- Integrative Cell and Tissue Biology
- Molecular Cell Biology I
- Systems Physiology.

#### Careers

Find a career in:

- hospital, diagnostic or research laboratories
- biotechnology or pharmaceutical companies
- research institutes
- government departments
- not-for-profit organisations
- universities.

## BSc Minor St Lucia



### Biophysics

Explore interdisciplinary science at the intersection of biology, physics and chemistry.

#### Study plan highlights

- Establish a broad, foundational knowledge of molecular and cellular biology.
- Learn how core principles from physics and chemistry govern the behaviour of cells, molecules, and atoms in living organisms.
- Become familiar with the latest mainstream and cutting-edge biomolecular characterisation techniques.
- Learn how new biological knowledge is used to create innovative new technologies, including drugs, vaccines or diagnostic tests to treat and prevent diseases, materials for tissue engineering and renewable energies such as biofuels.
- Study and work with internationally recognised UQ researchers and see first-hand how recent, Nobel Prize-winning technologies like cryo-electron microscopy and optical tweezers impact modern biophysics research.
- Develop critical scientific research skills through placements and practicals.

#### Sample courses

- Biochemistry and Molecular Biology
- Chemistry 1
- Foundations of Molecular Biophysics
- Genes, Cells and Evolution
- Research Frontiers in Biophysics.

#### Careers

Biophysics is used throughout the global biotechnology, biomanufacturing and pharmaceutical industries and within private and public research organisations. Find employment as a:

- research scientist
- designer or manufacturer of scientific tools and medical devices
- scientific marketing/salesperson
- policy developer
- educator (with additional study).



*"If you are looking to study in the field of biomedical science then UQ is certainly the place for you! You'll find a wealth of high-calibre professionals at UQ – both within biomedical science and beyond. I really valued the opportunity to do a Study Abroad program, which was a life-changing experience that has allowed me to grow as a person academically, professionally and personally. The use of the Gross Anatomy Facility while studying neuroanatomy also helped me both academically and professionally, and in my incredible honours research year I was able to complete my honours year alongside an occupational therapist specialising in chronic pain."*

#### Georgia Richards

Bachelor of Science  
(Biomedical Science)

Bachelor of Science (Honours)  
(Pharmacology)

Medical Researcher, Veteran  
Mental Health Initiative, Gallipoli  
Medical Research Foundation



BSc Extended Major/Major/Minor  
St Lucia

## Cell Biology

Understand how disease changes the normal function of cells and how it affects the development of new treatments.

## Study plan highlights

- Study how molecules function within cells and how the numerous types of cells come together to build organisms.
- Explore the cellular processes that underpin normal physiology and how these processes are organised within cells.
- Understand how disease changes the normal function of cells and how it affects the development of new treatments.
- Deepen your understanding of how cellular, genetic and molecular processes affect everyday life and apply your knowledge in practical laboratory sessions.
- Gain valuable technical skills including advanced microscopy techniques.
- Cell biology bridges biological and biomedical sciences so studying it will prepare you for progression into a research-based honours degree and for other postgraduate studies.

## Sample courses

- Cells to Organisms
- Genes Cells and Evolution
- Microbiology and Immunity
- Molecular and Cellular Physiology
- Molecular Cell Biology I and II.

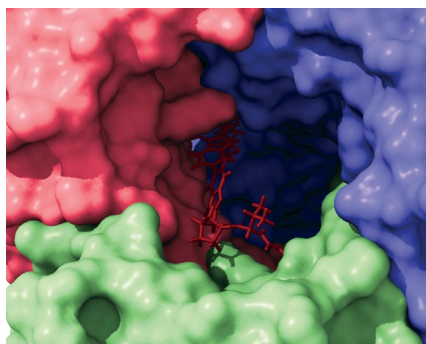
## Careers

You'll find career opportunities within:

- research
- medicine
- biotechnology and medical industries
- education
- agriculture or government agencies.

Expect to find roles as a:

- research assistant
- laboratory scientist
- clinical researcher
- cell culture specialist
- biotechnologist.

BSc Minor  
St Lucia

## Chemical Biology

Discover how chemistry underpins our understanding of biological processes and the development of new drug candidates.

## Study plan highlights

- Gain in-depth knowledge of protein catalysis and the chemical reactions for cell functioning.
- Apply the principles of inorganic and organic chemistry in practical laboratory sessions.
- Analyse cellular processes and biomolecular interactions using chemical and imaging techniques.
- Access leading scientists in the chemical, pharmaceutical, biochemical and protein sciences.
- Use practical laboratory sessions to gain valuable technical skills.
- Combine Chemical Biology with majors in Chemistry, Biochemistry and Molecular Biology, Genetics and Biomedical Science for further study in science or a research based honours degree.

## Sample courses

- Chemical Biology
- Chemistry
- Determination of Molecular Structure
- Medicinal Chemistry and Chemical Biology.

## Careers

Find a career in industries including:

- chemical
- food processing
- biotechnology
- pharmaceuticals
- medical research.

Be employed in roles such as a:

- chemist
- quality assurance manager
- biomedical scientist
- laboratory technician
- toxicologist.



*"I enjoy using science to identify new biological mechanisms and develop new technologies for sun care products that are proven to enhance our skin health. During my science degree I had the opportunity to work alongside accomplished researchers and work on active research projects."*

*My studies at UQ paved the way for roles as a chemist developing new skin care and hair care products in Australia, and as a scientist at Shiseido, one of the world's largest cosmetic companies."*

*After almost three years with Shiseido, I am now the Asia Pacific Market Development Manager for Lubrizol Corporation in Tokyo."*

**Bianca McCarthy**

Bachelor of Science (Chemistry and Biochemistry), Bachelor of Science (Honours) (Chemistry)

Asia Pacific Market Development Manager, Lubrizol Corporation



## BSc Extended Major/Major/Minor St Lucia



### Chemistry

Study the fundamentals of general, physical, organic and inorganic chemistry and gain professional accreditation.

#### Study plan highlights

- Choose to specialise in:
  - synthetic chemistry used to create drugs, explosives, paints and cosmetics
  - computational chemistry accessing advanced theoretical calculations and high-power supercomputers to predict the structures and reactivities of molecules and short-lived intermediate species
  - nanoscience to explore the processes of self-assembly enabling the controlled arrangement of atoms and molecules and the chemistry at interfaces
  - medicinal chemistry, to learn molecular design and how to evaluate the modification of compound properties to enhance pharmaceutical applications through bioassays
- Access advanced instrumental techniques and gain valuable practical skills.
- Gain industry accreditation with the Royal Australian Chemical Institute.

#### Sample courses

- Determination of Molecular Structure
- Experimental Chemistry
- Inorganic Chemistry
- Organic Chemistry
- Physical Chemistry.

#### Careers

Be employed as a:

- chemist or biochemist
- materials scientist
- environmental scientist
- toxicologist or forensic scientist
- scientific journalist
- quality assurance manager
- pharmaceutical sales representative.

## BSc Extended Major/Major/Minor St Lucia



### Coastal and Ocean Science

Study oceanography and coastal processes using biological, chemical and geophysical sciences.

#### Study plan highlights

- Gain extensive fieldwork experience at island research stations on the southern Great Barrier Reef and Moreton Bay.
- Develop laboratory skills, analyse big data, and use remote sensing spatial data from satellites and drones.
- Assess the climate impacts and adaptation strategies to protect coastal ecosystems and communities.
- Enhance your employability with a minor in Earth Science, GIS or other complementary sciences.

#### Sample courses

- Applied Marine Science
- Aquatic Environments
- Environmental Impact Assessment
- Living Oceans
- Marine and Coastal Environmental Protection.

#### Careers

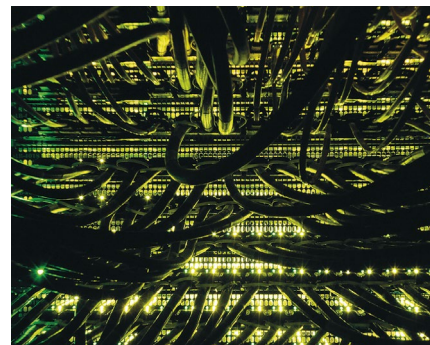
In Australia, marine-based industries are worth more than \$68 billion annually.\*

Find a diverse variety of roles in:

- engineering and consulting
- fishing and aquaculture
- food technology
- marine parks and ecotourism
- marine resource development
- marine science research institutes
- museums
- oil and gas production
- pharmacology
- education
- wildlife conservation.

\* The AIMS Index of Marine Industry, December 2018

## BSc Minor St Lucia



### Computational Science

Learn to create insights from complex data.

#### Study plan highlights

- Access fundamental principles from computer science, mathematics and statistics.
- Study and apply forecasting, data analysis or data visualisation to complex problems and the creation of new technologies.
- Learn to design algorithms for collecting, processing and analysing vast amounts of data.
- Develop programming skills to construct large-scale mathematical models and simulations to analyse and interpret real-world data.

#### Sample courses

- High-Performance Computing
- Machine Learning
- Numerical Methods in Computational Science
- Scientific Computing: Advanced Techniques and Applications
- Visualisation, Computer Graphics and Data Analysis.

#### Careers

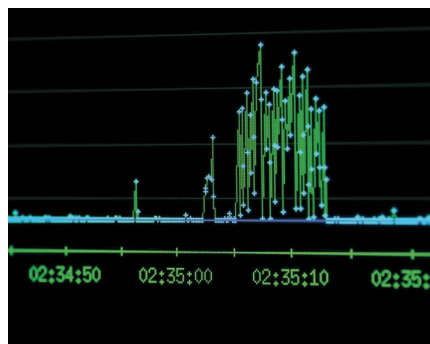
Employment in STEM occupations will grow by 14.2 per cent by 2026.\*

Find employment in sectors such as:

- business and finance
- engineering
- government
- health
- information technology.

Work in research and analytical roles to solve problems in biological sciences, bioinformatics, genomics; molecular and microbial sciences, mathematics, computer science.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

BSc Extended Major/Major/Minor  
St Lucia

## Computer Science

Shape the digital future with computer based systems.

## Study plan highlights

- Develop skills in programming, information and communications technology, data analysis, predictive modelling, cyber security, artificial intelligence, game development, e-commerce and algorithms.
- Gain the technical expertise to create and optimise applications that work across multiple devices.
- Learn the fundamental theoretical and engineering principles required to program and store information on computers.
- Access specialised courses in computer systems, human-computer interaction, algorithms and data structures, artificial intelligence, computer networks and information security.
- Undertake major individual and team projects on current scientific and industry problems.

## Sample courses

- Fundamentals of Data Science
- Human-Computer Interaction
- Introduction to Software Engineering
- Relational Database Systems
- Theory of Computing.

## Careers

Demand for computer professionals is predicted to grow by 22 per cent.\*

Be employed as a:

- web, gaming or app developer
- software engineer or programmer
- information security specialist
- data analyst or computer systems expert.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

BSc Minor  
St Lucia

## Data Science

Be part of the growing demand for Data Scientists globally.

## Study plan highlights

- Study computing, statistics, mathematics and business.
- Understand the fundamental techniques for end-to-end processing to transform data into information.
- Explore machine learning, data visualisation, data mining and statistical modelling.
- Learn to use data ethically and understand the legal considerations for data science and business communication.
- Gain hands-on experience with relevant big data tools and technologies.
- Apply creative and disruptive thinking to complex data science challenges and problems globally.

## Sample courses

- Analysis of Scientific Data
- Advanced Analysis of Scientific Data
- Fundamentals of Data Science
- Theory and Practice in Science.

## Careers

Data scientist was the #7 top emerging jobs of 2020 (LinkedIn 2020 Emerging Jobs Report). Employment of data scientists is projected to grow by 36 percent from 2021 to 2031, much faster than the average for all occupations.\*

Be employed as a:

- quantitative analyst
- bioinformatics specialist
- financial data analyst
- computer scientist
- business analyst
- statistical analyst
- database developer
- research analyst.

\*Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Data Scientists, at [bls.gov/ooh/math/data-scientists.htm](https://bls.gov/ooh/math/data-scientists.htm)

BSc Minor  
St LuciaDevelopmental  
Biology

Discover how genetic, molecular and cellular mechanisms affect the health of the human body.

## Study plan highlights

- Learn how stem cells, cell engineering, artificial organs, 3D printing and tissue regeneration are used in detecting or treating diseases and birth defects, and applied in regenerative medicine.
- Apply your theoretical knowledge and build your technical skills through practical laboratory sessions and small group tutorials.
- Access leading researchers and laboratories creating medical breakthroughs.
- Gain specialist knowledge and skills to progress into medicine or a research-based honours program.

## Sample courses

- Developmental Neurobiology
- Genes, Cells and Evolution
- Molecular Cell Biology
- Stem Cells, Development and Developmental Disorders
- Stem Cells and Regenerative Medicine.

## Careers

Employment for life scientists will grow by over 3 per cent by 2026.\*

Work within sectors such as:

- health care
- professional, scientific and technical services
- manufacturing
- education and training
- public administration and safety.

Be employed as a:

- pathologist
- research assistant
- biomedical scientist or researcher
- biomedical technician
- biology teacher or educator.

\*Source: Jobs and Skills Australia Employment Projections to 2026

## BSc Extended Major/Major/Minor St Lucia



### Earth Science

Study the impact of physical processes on Earth's ecosystems and resources.

#### Study plan highlights

- Learn how life on Earth developed and how plate tectonics, biology, and chemistry interact to control Earth's surface environment.
- Examine what makes Earth different to other planets in the Solar System and how we are exploring these new environments.
- Apply your knowledge through laboratory practicals and fieldwork.
- Gain skills to reduce the effects of environmental change, natural hazards and manage resources sustainably.
- Undertake a research-based honours degree and contribute to new scientific knowledge.

#### Sample courses

- Earth Materials
- Field Geology
- Planet Earth: The Big Picture
- Sedimentary Basin Architecture
- Tectonics.

#### Careers

Find employment with national and multinational companies, consultancies, government agencies and research organisations in sectors such as:

- mineral resources
- energy
- environment monitoring and management
- engineering
- space exploration.

Find roles as a:

- geoscientist and geophysicist
- hydrologist
- mine and exploration geologist
- natural resource scientist
- project manager
- environmental planner.

## BSc Extended Major/Major/Minor St Lucia



### Ecology and Conservation Biology

Develop knowledge and skills to address challenges at individual, population, community, landscape, and ecosystem level.

#### Study plan highlights

- Explore pristine and managed ecosystems on optional field trips.
- Learn from internationally renowned ecologists, conservationists, and teaching specialists.
- Choose electives so you can specialise in terrestrial, marine, microbial ecology and more.
- Progress to a Master of Conservation Biology or an Honours research program.

#### Sample courses

- Climate Change Biology
- Conservation
- Functional Ecology
- Macroecology and Biogeography
- Urban Ecology.

#### Careers

Jobs for life scientists are predicted to grow by 3.4% by 2026.\*

Find roles as:

- plant and animal ecologists
- ecological assessment officers
- environmental planners and advisors
- marine and national park managers
- sustainability consultants.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

## BSc Minor St Lucia



### Entomology

Discover the essential role that insects play in maintaining global plant, animal and human health.

#### Study plan highlights

- Investigate how insects could become a major food source in the future.
- Examine how insects interact with and adapt to their environments and their roles within ecosystems.
- Learn how insects contribute to crop protection, pest and environmental management, conservation and biosecurity.
- Explore pest management, insect physiology, insect identification and taxonomy.
- Learn from globally recognised researchers.
- Contribute to conservation solutions or pest management strategies to protect crops and livestock.
- Undertake a research-based honours degree to progress into a research career.

#### Sample courses

- Arthropods and Human Health
- Biodiversity and Systematics
- Insect Identification and Taxonomy
- Insect Science
- Insect Structure, Function and Physiology.

#### Careers

Jobs for life scientists are predicted to grow by 3.4% by 2026.\*

Find employment as a consultant in:

- agriculture
- environment, conservation and natural resources
- public health
- biosecurity
- urban development
- food processing
- pharmaceuticals.

\*Source: Jobs and Skills Australia Employment Projections to 2026.



BSc Major  
St LuciaFood Science  
and Nutrition

Examine the psychological, sociological and cultural factors influencing food choice and their effect on consumer health.

## Study plan highlights

- Study food processing principles, shelf-life and sensory evaluation of products with consumer panels, and the microbiological and chemical testing of products for consumer safety.
- Learn how the physical and chemical composition of food is affected during processing and storage, and how to improve safety and quality of food.
- Apply your knowledge during practical laboratory sessions and industry work placements.
- Become an accredited dietitian by studying the Master of Dietetics on completion of your Bachelor of Science.

## Sample courses

- Community and Public Health Nutrition
- Food Chemistry
- Food Microbiology
- Nutrition and Exercise
- Nutrition Science
- Principles of Food Preservation.

## Careers

Employment for nutrition professionals is expected to grow by 7.2 per cent by 2026.\*

Be employed in roles such as:

- community nutrition and education
- food policy development and implementation
- research and development
- food safety compliance
- food processing and manufacturing
- technical sales and marketing.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

BSc Major/Minor  
St Lucia

## Food Technology

Study the processes involved in developing new food products and to manufacture food.

## Study plan highlights

- Discover the chemical, biochemical, technology/engineering, microbiological and biometric science supporting the food industry.
- Discover how to package materials for optimal storage and transport.
- Learn how to conduct shelf-life studies and undertake sensory evaluation of products.
- Apply microbiological and chemical methodologies to test food products for consumer safety.
- Examine the causes and prevention of foodborne illnesses and loss of quality.
- Apply your knowledge and build your industry connections during work placements.

## Sample courses

- Food Chemistry
- Food Microbiology
- Food Policy, Safety and Quality Management
- Food Process Engineering
- Food Structure and Sensory Science
- Principles of Food Preservation.

## Careers

Sixty per cent of food technologists are employed in manufacturing.

Work in roles as a:

- food microbiologist
- food safety and quality assurance manager
- research and Development Manager
- food engineer
- sensory scientist
- market researcher
- nutritionist
- packaging technologist
- public health official
- food product marketer
- food consultant.



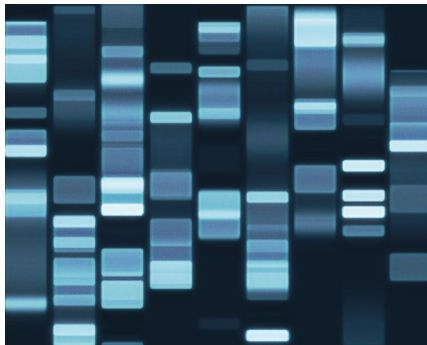
*“I enjoy learning where food comes from, what elements influence the quality, safety and security of what we eat, and how that impacts the larger population. I monitor developments in the global policy landscape, in relation to food and sustainable packaging, and strategise how crucial issues can be effectively addressed. My role gives me a holistic view of the food industry and allows me to better understand how and why policies are developed and implemented. I engage with manufacturers who produce pre-packaged foods, collaborate with academics leading research and innovation, and work in partnership with governments to deliver fair solutions and sustainable results.”*

## Samantha Wong

Bachelor of Science (Food Science and Nutrition) (Honours)

Regional Policy Officer,  
Food Industry Asia

## BSc Extended Major/Major/Minor St Lucia



### Genetics

Genetic principles are used to diagnose, treat, prevent and cure illnesses in animals, plants and humans.

#### Study plan highlights

- Discover how genetics transforms modern biology through sequenced genomes, computational analysis and molecular analytic tools.
- Study the genetic basis of traits and complex interactions between genes.
- Evaluate strategies to provide security for agriculture and food production.
- Gain skills to aid the public understanding of the nature of genetic disease.
- Learn to develop breeding programs and conservation strategies to prevent the extinction of endangered species.
- Use genetic engineering techniques to generate new products to improve lives.
- Study Genetics as an extended major or combine it with another scientific discipline.
- Undertake honours, master's, Doctor of Philosophy (PhD) and MD-PhD programs for a research career.

#### Sample courses

- Biochemistry and Molecular Biology
- Biostatistics and Experimental Design
- Genes, Cells and Evolution
- Genetics
- Genomics.

#### Careers

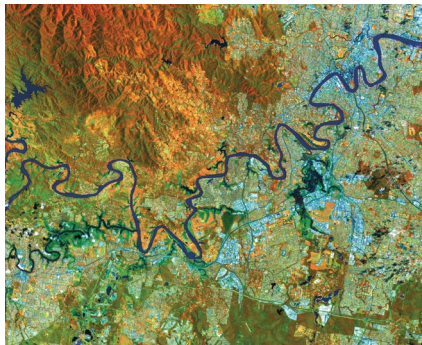
Jobs for geneticists are predicted to grow by 3.4 per cent by 2026.\*

Work in roles such as a:

- molecular geneticist
- genetic counsellor in hospitals
- conservation geneticist
- biotechnologist
- ecology and genome researcher
- medicine and agriculture researcher
- epidemiologist or quarantine officer.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

## BSc Extended Major/Major St Lucia



### Geographical Science

Geographical Science applies scientific approaches to measure and interpret geographical processes and phenomena.

#### Study plan highlights

- Learn to model, manage, and analyse geo-referenced information and datasets.
- Specialise in earth systems science, climatology, biogeography and landscape ecology.
- Study hydrology and geomorphology, marine and coastal systems, society and the environment, urban and economic geography, demography and GIS.
- Explore how physical geography informs the sustainable use of the Earth's natural systems.
- Gain valuable practical skills through field studies.

#### Sample courses

- Applied Demography
- Biogeography and Geomorphology
- Climatology and Hydrology
- Global Change: Problems and Prospects
- Introduction to Earth Observation Sciences (EOS).

#### Careers

Employment prospects for Geographers are expected to grow globally 6 per cent by 2026.\*

Find employment in:

- natural resource management, agriculture and ecotourism
- hazard assessment, mitigation and disaster management
- national parks and wildlife conservation
- planning the delivery of human services and policy development
- environmental consultancy, monitoring and pollution control
- GIS analytics.

\*Source: Jobs and Skills Australia Employment Projections to 2026.



*"I am a Project Officer in the Queensland Hydrogen Delivery Unit in the Queensland Department of Energy and Public Works. My role is to research, analyse, design, implement and review policies for government."*

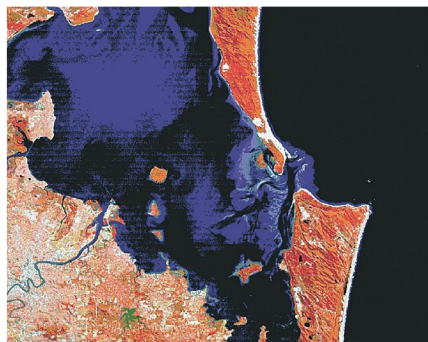
*"During my studies I conducted fieldwork and research in Queensland and overseas on climate change adaptation. Another one of my rotations was with the Department of Natural Resources, Mines and Energy where I researched and analysed international renewable energy policy and energy market trends to develop new departmental policy and inform cabinet decision-making. My UQ degree taught me vital skills and knowledge not only for a career in science, but for any field I choose to pursue."*

#### Ben Priebbenow

Bachelor of Science  
(Geographical Sciences)

Project Officer,  
Queensland Government



BSc Minor  
St LuciaGeographical  
Information Science

Study spatial patterns of physical and human phenomena at local, national and global scales.

## Study plan highlights

- Use information technology and geography to match information to a location to reveal behaviours and patterns at local, national and global scales.
- Develop and integrate tools to collect, analyse and understand geographical patterns and processes.
- Blend theory with practical industry experience and apply geographical information science software and remote sensing technologies.
- Study data analysis and data modelling, and how to develop map visualisations to solve key environmental, societal or planning issues.

## Sample courses

- Earth Observation: Image Processing and Modelling
- Environmental Systems
- Geographical Information Systems
- Introduction to Earth Observation Sciences
- Spatial Analysis and Modelling.

## Careers

Employment for spatial scientists will grow by 14.6 per cent annually until 2026.\*

Apply your skills to:

- built environment consulting
- environment and resource management
- national parks and wildlife conservation
- environmental consultancy, monitoring and pollution control
- meteorology.

Find roles as a:

- geospatial application and software developer
- GIS Analyst
- environmental scientist
- cartographer.

BSc Minor  
St Lucia

## Human Anatomy

Investigate human growth and development, and learn to detect disease and devise new or improved treatments.

## Study plan highlights

- Investigate the structure of the human body at the gross, systematic and microscopic scale.
- Through hands-on practicals and class lectures, build your knowledge of the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems.
- Gain practical skills in dissection and examine prosected cadavers.
- Learn to collect and evaluate data on human variation, measurement uncertainty, effect size and statistical significance.
- Explore the complex relationship between the body, mind and disease through courses in human physiology, neuroscience or pharmacology.
- Use your studies as a pathway to medicine, allied health or to a research-based honours program.

## Sample courses

- Cells to Organisms
- Functional Musculoskeletal Anatomy.
- Functional Neuroanatomy
- Human Anatomy
- Human Biomedical Anatomy.

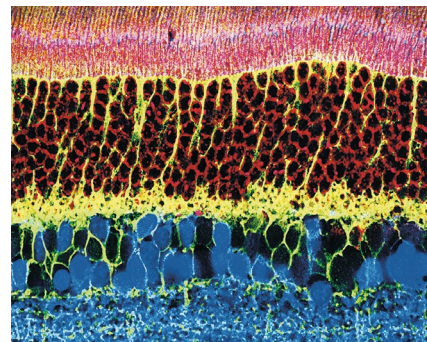
## Careers

Employment for life scientists is expected to increase by 3.5 per cent by 2026\*.

Find roles as a:

- research scientist
- pathologist
- research assistant
- biomedical technician
- biology teacher or educator.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

BSc Minor  
St Lucia

## Human Physiology

Examine how human cell, tissue and organ systems function and impact on health and disease.

## Study plan highlights

- Learn the role of the brain, nerves and hormones in controlling important cardiovascular, respiratory, reproductive and metabolic processes.
- Develop your knowledge of the nervous system, neuromuscular physiology, gastrointestinal tract, special senses and sensory system.
- Investigate how the failure of these systems lead to disease and disorders.
- Study physiological functions at a molecular and cellular level and how the body's core processes are altered in diseased states.
- Combine your minor with human anatomy, neuroscience, pharmacology or food science and nutrition to understand the links between the body, mind and disease.
- Use your studies to transition into allied health fields, medicine or to a research-based honours program.

## Sample courses

- Cells to Organisms
- Integrated Endocrinology
- Integrative Cell and Tissue Biology
- Integrative Physiology and Pathophysiology
- Systems Physiology.

## Careers

Employment opportunities for life scientists will increase by 3.5 per cent by 2026\*.

Find roles as a:

- science writer
- biomedical researcher
- biomedical scientist
- biochemist
- nutritionist
- policy advisor in a wide range of sectors.

\*Source: Jobs and Skills Australia Employment Projections to 2026.



## BSc Minor St Lucia



### Immunology

Study new technologies that harness the immune system to fight disease.

#### Study plan highlights

- Understand the mechanisms of allergy, immunodeficiency and autoimmune diseases.
- Investigate the microbiome and the immune system and how modern Western lifestyles are causing disease.
- Study new technologies that harness the immune system to fight cancer.
- Learn the techniques to develop vaccines and immunotherapies.
- Gain practical skills and research experience in laboratories during your studies.
- Be prepared to study medicine or a research-based honours program.

#### Sample courses

- Biochemistry and Molecular Biology
- Cells to Organisms
- Genes, Cells and Evolution
- Immunology
- Microbiology and Immunology.

#### Careers

Employment for life scientists is expected to grow by 3.4 per cent by 2026.\*

Be employed by:

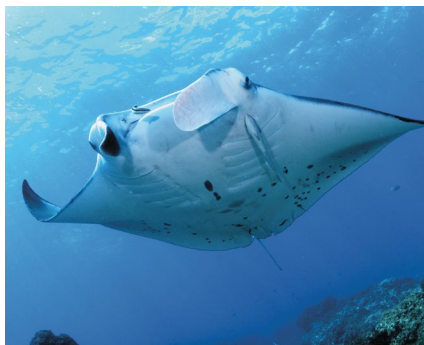
- hospitals
- research institutions
- biotechnology firms
- pharmaceutical companies
- universities.

Work as a:

- pathologist
- immunologist
- medical or research scientist
- bioprocess scientist
- vaccine developer.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

## BSc Major/Minor St Lucia



### Marine Biology

Marine biologists investigate, understand and manage marine biodiversity and ecosystems.

#### Study plan highlights

- Contribute to evidence-based ecological and environmental strategies to protect and sustainably manage vital marine organisms and ecosystems on a local and global scale.
- Visit Moreton Bay Research Station on North Stradbroke Island (Minjerribah) or Heron Island Research Station on the southern Great Barrier Reef to conduct fieldwork.
- Learn from internationally renowned marine biologists, aquatic health experts, and teaching specialists.
- Progress to a Master of Conservation Biology or an Honours research program.

#### Sample courses

- Coral Reef Ecology and Conservation
- Ecology and Evolution of Marine Invertebrates
- Fish, Fisheries and Aquaculture
- Marine Wildlife Conservation
- Vertebrate Diversity and Evolution.

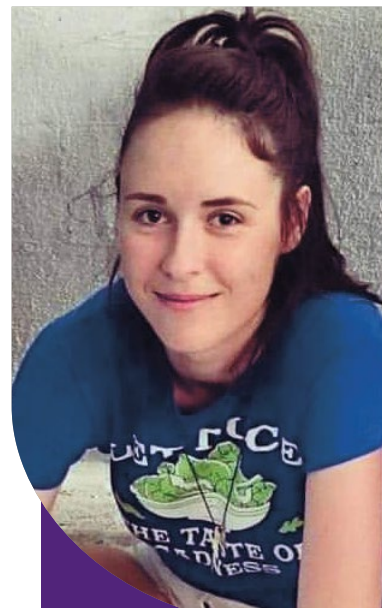
#### Careers

In Australia, marine-based industries are worth more than \$68 billion annually.\*

Find employment as:

- marine park manager
- fisheries and aquaculture technician
- marine bioresource or biotechnology scientist
- marine ecotourism manager.

\* The AIMS Index of Marine Industry, December 2018



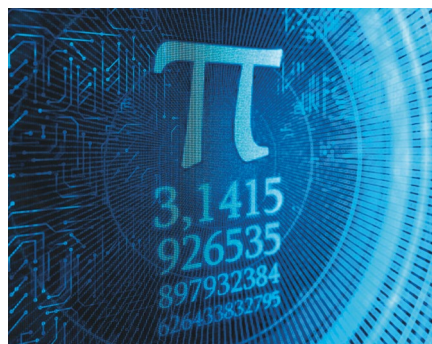
*“My role in the Department of Agriculture and Fisheries as a fisheries resource officer is to write and publish ecological risk assessments. This involves extensive research about harvested and targeted species as well as non-target species like bycatch and protected species.*

*I chose to study at UQ because it has one of Australia’s best marine biology programs and I was able to access facilities at Heron Island, Moreton Bay and also undertake a month-long internship on a cage diving boat in South Africa with great white sharks.”*

#### Lisa Walton

Bachelor of Marine Studies (Honours)

Fisheries Resource Officer, Department of Agriculture and Fisheries

BSc Extended Major/Major/Minor  
St Lucia

## Mathematics

Use mathematics to create innovations that will shape the future.

## Study plan highlights

- Choose from more than 60 different courses in mathematics and statistics.
- Learn how to develop new ideas and proofs, and model solutions.
- Gain quantitative and analytical skills in calculus, linear algebra, discrete mathematics and advanced analysis and algebra.
- Apply your knowledge through practical experience, structured tutorials and specialised lectures.
- Expand your problem-solving, logical thinking and conceptual ability with coding and cryptology, and mathematical physics.
- Continue into a higher degree by research to gain specialised research skills.

## Sample courses

- Abstract Algebra and Number Theory
- Coding and Cryptography
- Complex Analysis
- Differential Geometry
- Optimisation Theory.

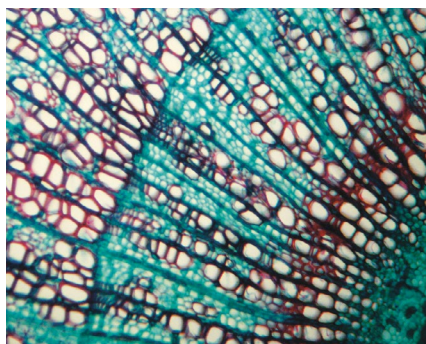
## Careers

Employment opportunities for actuaries, mathematicians and statisticians are expected to grow by 11 per cent by 2026\*.

Find employment in:

- banking
- finance
- insurance
- business
- engineering
- science
- information technology
- cybersecurity
- risk management
- defence
- transport and logistics.

\*Australian Government Labour market insights 2021 to 2026

BSc Major/Minor  
St Lucia

## Microbiology

Study bacteria, fungi and viruses and their impact on human health.

## Study plan highlights

- Study microorganisms, the immune system, microbial virulence, disease states and response to infection.
- Learn how vaccines protect animals and humans from infectious diseases.
- Focus on immunology, virology, parasitology, environmental microbiology, microbial biotechnology and microbial genomics.
- Gain skills in specialist biomedical and molecular techniques used to diagnose and characterise infectious microbes and in the development of new diagnostics.
- Problem-based scenarios and laboratory practicals enhance your technical, analytical, research and communication skills.
- Discover the latest advances in vaccine development from lecturers who are globally recognised experts.

## Sample courses

- Biochemistry and Molecular Biology
- Chemistry
- Genes, Cells and Evolution
- Microbes and Human Health
- Microbiology and Immunology.

## Careers

Employment for Life Scientists is expected to grow by 3.4 per cent by 2026\*

Find roles in sectors such as:

- agriculture
- environment
- chemical
- pharmaceutical
- pharmaceutical and medical
- food processing
- veterinary
- forensics
- biosecurity and quarantine.

\*Source: Jobs and Skills Australia Employment Projections to 2026.



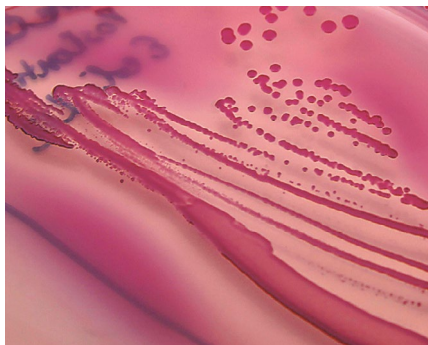
*“My UQ degree gave me a mathematical foundation for meteorology, which has been really invaluable in my role as a weather forecaster for the Bureau of Meteorology. There are some seriously big partial differential equations in atmospheric dynamics and my main responsibilities are issuing 7-day forecasts for the public and routine short-term and specialised forecasts for the aviation industry. What I found most beneficial about my program was the staff and student interactions. It was really easy to make friends with older students and lecturers so it was always easy to get help and advice for those willing to learn.”*

## Matthew Marshall

Bachelor of Science (Honours) graduate

Meteorologist,  
Bureau of Meteorology

## BSc Extended Major St Lucia



## Microbiology, Infection and Immunity

Understand how the immune system can be used to prevent, treat and cure diseases.

### Study plan highlights

- Investigate the role of bacteria, viruses and parasites in disease; the molecular basis of immune recognition; and the regulation of immune response.
- Learn immunological techniques for vaccines and immunotherapy development.
- Apply your theoretical knowledge and technical skills in practical laboratory sessions and small group tutorials.
- Learn from leading researchers working on current medical breakthroughs.

### Sample courses

- Biochemistry and Molecular Biology
- Genetics
- Global Health and Infectious Diseases
- Microbiology and Immunology
- Virology.

### Careers

Employment for Life Scientists is predicted to grow at 3.4 per cent by 2026.\*

Be employed in biosecurity, diagnostics and pathology, vaccinology, antimicrobial therapeutics or biosafety in:

- hospitals
- research institutions
- biotechnology and pharmaceutical companies
- government agencies
- universities.

Find roles as a:

- pathologist
- immunologist
- medical scientist
- bioprocess scientist.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

## BSc Minor St Lucia



## Neuroscience

Understand how the mind and nervous system affect behaviors, actions, medical conditions, thoughts or emotions.

### Study plan highlights

- Examine how the human brain and nervous system function.
- Explore how neural systems process sensory information, control our movement, form memories, react to stress, respond to disease, and store vital information about the world around us.
- Combine neuroscience with courses in anatomy, physiology, pharmacology, molecular biology and cellular biology for further study in medicine or a research-based honours degree in science or biomedical science.
- Apply your knowledge of mathematics, statistics, computer science or physics to problems in artificial intelligence.

### Sample courses

- Cells to Organisms
- Integrative Cell and Tissue Biology
- Molecular Cell Biology I
- Molecular and Cellular Neuroscience
- The Integrated Brain.

### Careers

Employment for Life Scientists is expected to grow by 3.4 per cent by 2026.\*

Find employment in:

- business
- biotechnology
- health and pharmaceuticals
- science
- information technology.

Work in roles as a:

- biomedical scientist
- research assistant or officer
- quality assurance officer or manager
- deep learning specialist
- machine learning engineer.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

## BSc Minor St Lucia



## Pharmacology

Pharmacology is revolutionising the use of existing drugs and the development of new medicines to help prevent and combat disease.

### Study plan highlights

- Gain comprehensive knowledge on how drugs work in the human body at the molecular, cellular and whole-body levels.
- Learn how active chemical agents in medicines affect our cells, tissue or organs to examine their benefits, side effects and interactions in human health.
- Discover how genetics determines why many drugs do, or do not, work in different patients.
- Learn the latest techniques to test drug effects and how to evaluate their benefits and risks in treating human diseases.
- Gain vital research experience while you study by contributing to projects that could lead to new medical breakthroughs.

### Sample courses

- Experimental Pharmacology
- Genes, Cells and Evolution
- Molecular Cell Biology
- Principles of Pharmacology
- Systems Pharmacology.

### Careers

The pharmaceutical industry is a \$1 trillion global industry.

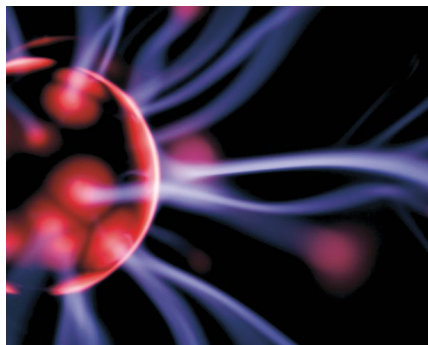
Pharmacologists find roles within this sector as:

- clinical researchers undertaking clinical trials
- analytical chemists
- medical sales representatives.

Other roles include:

- advisers or researchers in biotechnology health related companies or universities
- environmental scientists
- toxicologists within government departments.



BSc Extended Major/Major/Minor  
St Lucia

## Physics

Study the laws of physics and their application to develop new technologies, advanced materials, and electronic and optics products.

## Study plan highlights

- Develop your fundamental understanding of the nature of time, the origin of the universe and the properties of advanced materials.
- Learn analytical methodologies and techniques to investigate the structure and properties of matter, the relationships between matter and energy, and other physical phenomena.
- Build the foundations for an international research career in physics.
- Test the reliability of methodologies and techniques by performing tests and experiments under various conditions.
- Combine your scientific and mathematical knowledge with skills in computer programming and statistics to understand theories relating to quantum technologies, photonics, and astrophysics.

## Sample courses

- Electromagnetism and Modern Physics
- Dynamics and Relativity
- Quantum Mechanics
- Statistical Mechanics
- Thermodynamics and Condensed Matter Physics.

## Careers

Employment for natural and physical science professionals will increase by 3.5 per cent by 2026.\*

Find employment in:

- energy and climate sector
- computing and data science
- government and university laboratories
- scientific consulting
- financial modelling
- science communication and education
- health and medical sector.

\*Source: Jobs and Skills Australia Employment Projections to 2026.

BSc Major/Minor  
St Lucia

## Plant Science

Plant scientists improve food security, reduce global warming, preserve biodiversity, and lessen dependency on fossil fuels.

## Study plan highlights

- Study traditional and new breeding techniques, plant ecology and sustainability, plant biotechnology and molecular plant science, and plant pathology.
- Investigate the production of new high-yielding, disease- and drought-resistant crops.
- Learn the techniques to limit carbon emissions with biofuels and biomaterials.
- Examine methods of restoration ecology and carbon sequestration in biomass and soils.
- Explore the potential to use plants for industrial products, biopharmaceuticals, energy and anticancer drugs.
- Access 3 plant science research centres and excellent links to industry.

## Sample courses

- Biodiscovery from Plants
- Biostatistics and Experimental Design
- Genetics
- Plant Biology
- Plant Diseases.

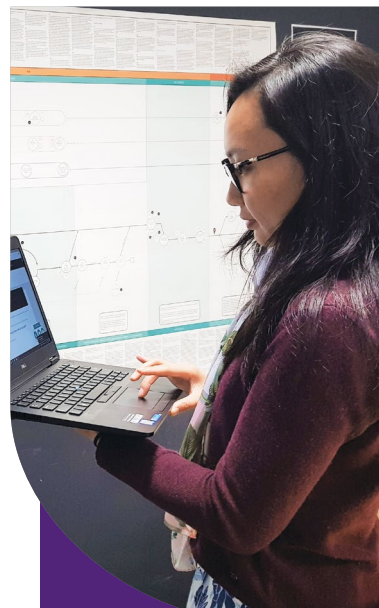
## Careers

Employment for Life Scientists is predicted to grow by 3.4 per cent by 2026.\*

Be in demand by employers such as:

- government departments
- research institutes and universities
- international aid organisations
- agricultural consultants
- seed and fertiliser companies
- environmental consultants
- mining companies
- horticultural producers
- nurseries and landscape designers.

\* Source: Jobs and Skills Australia Employment Projections to 2026.



*"I wasn't expecting to go into artificial intelligence, or to find artificial intelligence in a law firm – but it's a changing industry. As the Deep Learning Lead at Shine Lawyers I look after the artificial intelligence projects and analyse the law firm's previous cases to predict the likely outcomes of future cases. There are lots of changes happening to the legal industry and it's exciting to be at the forefront and leading this change. The scientific and mathematical knowledge and practical research experience I gained at UQ has been instrumental to my career success to date – so regardless of what lies ahead, I'm confident I'm well prepared. During my studies I worked in the genomics lab at the Institute for Molecular Biosciences and the bee bio robotics lab at the Queensland Brain Institute."*

## Ann Bui

Bachelor of Science (Honours)  
(Physics), PhD (Physics)  
Deep Learning Lead,  
Shine Lawyers

## BSc Extended Major/Major/Minor St Lucia



## Psychology

Study how people behave, think and feel.

### Study plan highlights

- Learn to investigate, assess and provide treatment and counselling.
- Examine brain function, memory, conscious experience, lifespan development, social behaviour, and functional and dysfunctional behaviour.
- Develop analytical skills and learn to administer and interpret diagnostic tests and formulate plans for treatment.
- Study neuroscience, learning and cognition, developmental psychology and social psychology, and apply scientific methods and statistical techniques used in research.
- For full registration as a psychologist, undertake an honours year and further postgraduate study.
- With additional training, become a registered psychologist specialising in clinical psychology, health psychology, organisational psychology, or sport and exercise psychology.

### Sample courses

- Developmental Psychology
- Learning and Cognition
- Neuroscience for Psychologists
- Social and Organisational Psychology
- The New Psychology of Health.

### Careers

Employment for psychologists is expected to grow by 13 per cent by 2026.\*

Find roles in:

- human resources
- mental health
- counselling
- corrective services
- education and training.

\*Australian Government Labour market insights  
2021 to 2026

## BSc Major St Lucia



## Public Health

Learn to measure, plan, manage and evaluate community health programs and services to prevent illness and promote good health.

### Study plan highlights

- Explore and examine the multidisciplinary basis of disease through human behaviour, physical environments, socio-economic and cultural factors, and healthcare management.
- Gain foundational knowledge of epidemiology, biostatistics, health systems, environmental health and social sciences.
- Apply for entry into clinical careers in medicine or allied health, or undertake the Master of Public Health.
- Prepare for a research career with an additional honours year.

### Sample courses

- Environmental Health
- Health Systems and Policy
- Major Diseases and their Control
- Nutrition in the Lifespan
- Understanding Health Behaviours.

### Careers

The job market for health promotion professionals is expected to grow by over 20 per cent by 2026.\*

Find employment in:

- public health sector
- government
- non-profit or private health-based organisations.

Work in:

- clinical, non-clinical or research roles
- community health and health promotion
- health service management
- health information in hospitals and other healthcare facilities
- community health clinic management
- community nutrition.

\*Australian Government Labour market insights  
2021 to 2026



*"I chose to follow my interests and studied a number of scientific fields, including botany and genetics, before choosing to major in psychology."*

*I combine my skills in data analysis with my rigorous scientific approach to shed light and address key marketing and e-commerce challenges that businesses face in today's digital world.*

*I apply my knowledge of behavioural science to develop experimental research and designs to test theories and learn new insights that can help to find the answers to the questions that need solving."*

### Aidan Hegarty

Bachelor of Science (Honours)  
(Psychology)

Head of Research,  
Just Media Design



BSc Major/Minor  
St Lucia

## Statistics

Statistics informs data-driven decision making to solve complex problems.

## Study plan highlights

- Learn to design, collect, analyse and interpret data to extract patterns and other useful information.
- Apply this knowledge to predict stock market fluctuations and insurance claims; model the flow of diseases, internet traffic and mobile phone calls; assess drought conditions; or analyse population models for endangered species.
- Develop your probabilistic reasoning and problem-solving skills and how to apply statistical modelling and analysis.
- Learn to design statistical experiments and apply advanced data exploration and visualisation techniques.
- Summer vacation research projects provide practical experience and develop industry connections.
- With experience, apply for accreditation as a graduate statistician from the Statistical Society of Australia.

## Sample courses

- Calculus and Linear Algebra
- Mathematical Probability
- Multivariate Calculus and Ordinary Differential Equations
- Probability Models and Stochastic Processes
- Statistical Modelling and Analysis.

## Careers

Employment for actuaries, mathematicians and statisticians are expected to grow by 11 per cent by 2026.\*

Find excellent employment opportunities in:

- scientific organisations
- medical companies
- environmental consultancies
- defence
- agricultural agencies.

\*Australian Government Labour market insights 2021 to 2026

BSc Extended Major/Major/Minor  
St Lucia

## Zoology

Learn how animals relate and interact with their physical and biological environments.

## Study plan highlights

- Develop knowledge and skills in animal identification, anatomy, physiology and evolution.
- Work with animals in pristine and managed ecosystems on optional field trips.
- Learn from internationally renowned zoologists, ecophysiologicals, ecologists, and teaching specialists.
- Choose electives so you can specialise in specific animal groups, including vertebrates and invertebrates.
- Progress to a Master of Conservation Biology or an Honours research program.

## Sample courses

- Animal Behaviour
- Biodiversity and Systematics
- Physiological and Integrative Zoology
- Special Project in Biology
- Vertebrate Diversity and Evolution.

## Careers

Employment for Life Scientists is predicted to grow by 3.4 per cent by 2026.\*

Be employed in roles as:

- animal ecologists
- fauna spotters
- zoological educators
- national park managers.

\* Source: Jobs and Skills Australia Employment Projections to 2026.



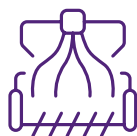
*"I chose UQ to pursue my science degree because of the outstanding reputation it had in the environmental sciences. After I completed my degree, I worked for 2 years as a research assistant in the Department of Environmental Science, Policy and Management at the University of California, Berkeley. Now I am completing my PhD at Monash University in Melbourne. As part of my research, I'm developing a decision-making tool for the management of inhabited island systems to achieve the best possible conservation outcomes. With such extreme environmental change happening at such an incredible pace, there are many problems to solve quickly, and that makes this field very exciting to be in."*

## Allie Nance

Bachelor of Science (Honours)  
(Ecology and Zoology)

PhD student, Monash University





**Find a career in Australian agribusiness,  
with the value of farm production forecast  
to reach a record \$78 billion in 2021–22**

Australian Bureau of Agricultural and Resource Economics

Bachelor of

# Agribusiness

Prepare yourself for a successful business career in the rapidly changing agricultural industry. Learn all aspects of the growing, processing, trading and financing of food and fibres. Gain valuable transferable business skills recognised in Australia and globally.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023* ATAR / IB	LOWEST ATAR TO RECEIVE AN OFFER 2023*		DURATION	START SEMESTER	CAMPUS	HONOURS	DUAL PROGRAM AVAILABLE	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED						
766001	2007	73.00 / 25.75	74.70	72.70	3 years full-time (or part-time equivalent)	1	Gatton St Lucia	N/A	Agricultural Science, Wildlife Science	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); General Mathematics or Mathematical Methods (Units 3 & 4, C)

See 'Program table explained' on page 7

\* Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

> Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.

## Why Agribusiness at UQ?

Agribusiness drives the entire supply chain and plays a vital role in the global economy. It begins with the seeds that grow the crops and ends with the retail marketing of food and fibres to consumers.

It also contributes to the commercialisation of new biotechnologies and information technologies to improve the production and marketing of food and fibre products.

Study Agribusiness at UQ and you'll prepare yourself for a business career in the rapidly changing agricultural industry.

You'll discover how to improve food production using agricultural inputs and technologies. Develop strategies to increase the value of supply chains by applying human resources and financial and advisory services. Study Australian and overseas businesses creating innovative, value-added food and fibre products. You will access world-class business experts with the most relevant, practical and up-to-date knowledge. Benefit from UQ's close collaboration with the Australian and global agricultural sectors.

## What you will study

Learn about market linkages, finance, and managing people and technology along the agrifood value chain to link producers with consumers. Build your knowledge of agricultural value chains and the e-technologies driving efficiencies. Study domestic and international marketing, commodity trading, human resource management, finance, supply chain

management and sustainability.

Tailor your studies through your elective courses towards your preferred career path.

**Note:** First year requires attendance at both St Lucia and Gatton campuses; subsequent years are based at Gatton. Your courses at St Lucia are taught by the UQ Business School. Your courses at Gatton are through the School of Agriculture and Food Sciences. Both Schools are highly ranked worldwide in the business and agricultural sectors, and you will learn from internationally recognised experts.

## Placements and practical experience

Gain practical experience through case studies, business simulations, guest lectures, research projects and agribusiness site visits. In your final year, you'll undertake a major group project with an agribusiness organisation, working in a small team to address the client's brief. Your project will focus on commercial outcomes and may include international market research. Apply your business skills and knowledge in a real-life business context.

## Dual programs

Study the Bachelor of Agribusiness as a dual degree with Bachelor of Agricultural Science (majoring in Agronomy, Animal Science or Horticulture) or Bachelor of Wildlife Science. Combine your practical business skills with your interests in any of 3 disciplines.

**Note:** Students in these dual programs are exposed to animals and agricultural environments as part of their learning. Immunisation against Q fever is mandatory and students will be required to provide evidence of immunisation upon commencement of the program. Immunisation against tetanus is also recommended.

## Career opportunities

On graduation you will be globally oriented and job ready. Find positions in the agricultural industry in managerial, administrative or research roles related to:

- agribusiness management and research
- agripolitics
- banking, finance, investment and insurance
- commodity trading
- sales and marketing
- export marketing and management
- Australian and international government agencies and departments
- policy development and analysis in agricultural and regional agencies
- property management
- supply chain management
- international aid and development agencies
- tourism.

## SAMPLE COURSES

Accounting for Decision Making  
Agribusiness Investment Project Appraisal  
Agribusiness Planning and Management  
Agrifood Strategy and Competitiveness  
Applied Market Research  
Commodities, Futures and Options  
Export Marketing and Practices  
Food and Fibre Case Studies I, II and III  
Foundations of Marketing  
Introduction to Human Resource Management  
Sustainable Food Supply Chains

## For more information

Visit [study.uq.edu.au](http://study.uq.edu.au)  
or scan the QR code





**UQ is ranked #1 in Australia  
for agriculture and forestry**

QS World University Rankings by Subject 2022

Bachelor of

# Agricultural Science

Prepare to shape the future of agriculture and tackle global challenges. Gain the expertise to improve the productivity, competitiveness and sustainability of agricultural practices.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023* ATAR / IB	LOWEST ATAR TO RECEIVE AN OFFER 2023*		DURATION	START SEMESTER	CAMPUS	HONOURS	DUAL PROGRAM AVAILABLE	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED						
762019	2448	73.00 / 25.75	73.35	73.75	3 years full-time (or part-time equivalent)	1	Gatton	Additional year of study	Agribusiness	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); General Mathematics or Mathematical Methods (Units 3 & 4, C)

See 'Program table explained' on page 7

\* Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

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## Why study Agricultural Science at UQ?

At UQ you'll learn from world-leading academics with an active research focus and strong industry connections. Learn to apply and integrate the scientific, technological, managerial, economic and social principles of agriculture. Improve livestock and cropping outcomes for small-, medium- and large-scale farming operations.

Enhance your technical skills with an optional 120-hour practical industry placement. Build your knowledge of the current and emerging trends in agricultural innovation. Graduate with a globally respected work-ready qualification.

Or undertake an extra honours year where you will complete an independent research project on a topic of your interest, while also acquiring skills in research methodologies, leadership and research communication. You'll have access to some of the best animal and veterinary facilities in the southern hemisphere as well as research greenhouses, a nursery and more than 1,000 hectares of farmland.

**Note:** Students are exposed to animals and agricultural environments as part of their learning. Immunisation against Q fever is mandatory and students will be required to provide evidence of immunisation upon commencement of the program. Immunisation against tetanus is also recommended.

## What you will study

Gain a strong understanding of the complexity of the agricultural sector and then customise your study to suit your interest in one of 3 majors:

### Agromony

Focus on both intensive and broadacre production of a range of agricultural crops

including cereals, grains, pulses, cotton and sugar cane. Learn to manage the environmental and agricultural practices to control plant growth and the crop production cycle. Combine your studies across biology, chemistry, ecology and earth sciences, or genetics. Use strategies such as crop rotation, irrigation and nutrient management, and the control of weeds, insects and other pests, to manage the whole cycle.

### Animal Science

Learn to use the latest technology to ensure sustainable beef, dairy, poultry, sheep, goat and pig production. Study animal nutrition, reproduction, animal health, animal breeding and genetics, animal behaviour, microbiology, anatomy and physiology, biochemistry and pasture science. Your practical classes will access some of the best animal science and research facilities in the southern hemisphere.

### Horticulture

Focus on the intensive production of fruit, vegetable, nursery and floricultural crops. Discover how to use postharvest techniques to extend the shelf life of highly perishable crops. Learn to improve plant yield, quality and nutritional value. Increase their resistance to insects, diseases and environmental stresses with plant breeding, biochemistry, physiology and propagation techniques.

Or combine any 2 of these areas to become a broadacre farming specialist.

## Double your opportunities

Broaden your skills with a dual program. You can combine your Bachelor of Agricultural Science with a Bachelor of Agribusiness to

gain business skills and integrate the science and business of agriculture.

## Careers

You will be able to work in local, national and international organisations or governments as an animal scientist, agronomist, horticulturalist, geneticist, soil scientist or agricultural consultant. You may also find work as an extension or inspection officer, or as adviser for producers.

## SAMPLE COURSES

### General

Agricultural Biochemistry  
Applied Mathematics and Statistics  
Biological Concepts and Plant Science  
Elements of Ecology  
Sustainable Agricultural and Animal Systems  
The Soil Environment

### Agromony

Crop Physiology  
Plant and Environmental Health  
Plant Physiology  
Plant Production Principles and Technologies

### Animal Science

Animal Breeding and Genetics  
Animal Nutrition and Technology  
Ruminant Production Systems  
Pasture Science and Management

### Horticulture

Horticultural Science  
Plant Production Principles and Technologies  
Production Horticulture  
Soil Plant Relationships

**For more information**

Visit [study.uq.edu.au](http://study.uq.edu.au)  
or scan the QR code





**Find your career in any one of over 560 biotech businesses operating in Australia**

IBISWorld Industry Report X0001, Biotechnology in Australia

Bachelor of

# Biotechnology

Biotechnology is a creative entrepreneurial field, where scientists design innovative products and technologies, pioneering new frontiers in health, agriculture, science, engineering – and beyond.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023* ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023*		DURATION	START SEMESTER	CAMPUS	HONOURS	DUAL PROGRAM AVAILABLE	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED						
731101	2456	81.00 / 29.25	83.05	81.05	3 years full-time (or part-time equivalent)	1, 2	St Lucia	Additional year of study	Engineering (Honours)	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); and one of Biology, Chemistry or Physics (Units 3 & 4, C)

See 'Program table explained' on page 7

\* Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

> Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.

## Why Biotechnology at UQ?

Biotechnology creates products to improve the world we live in. The scope of biotechnology innovations is only limited by our imaginations. Current applications of medical biotechnology include the rapid diagnosis and treatment of diseases (such as COVID-19), smart medical devices, and the creation of biomaterials for tissue and organ replacement. Agricultural biotechnologies are applied globally to plants and animals to improve yield, nutritional content, pest/disease resistance, and tolerance to extreme conditions. Emerging innovations also include the use of microorganisms to clean up oil spills, degrade plastics or extract metals; the industrial production of biologics; and production of cultured foods.

Set yourself up for a career in research or industry with advanced skills in biotechnology. At UQ, you will learn from Australia's leading educators in biotechnology. Whether your interest is in biology, chemistry or engineering, you will build strong foundations in core scientific concepts and learn how to translate this knowledge into biotechnology products and services.

## What you will study

Gain a fundamental understanding of key concepts in molecular genetics, bioinformatics, microbiology, immunology, biochemistry, cells and genes. Study chemistry, engineering, mathematics and other essential disciplines to better understand the biotechnology sector. You will gain core technical skills and learn commercial, regulatory and

intellectual property concepts critical in the development of new biotechnology products. Combine your scientific skills with business knowledge to manage commercial outcomes from biotechnology research. Undertake extensive, hands-on laboratory experience and build your practical product development skills in specialist facilities.

At the end of your third year, choose to add an optional research year at honours level or enter the master's program. Undertake a research focus that addresses both fundamental and applied technical issues. Or choose a business and entrepreneurship focus for a career in new product development.

## Extended majors

- Agricultural Biotechnology
- Chemical and Nano Biotechnology
- Medical Biotechnology
- Molecular and Microbial Biotechnology
- Synthetic Biology and Industrial Biotechnology.

## Minors

- Bioinformatics
- Innovation and Entrepreneurship.

## Placements and practical experience

Choose a student industry placement or internship offering a project. You will solve a technical or operational problem and report on your findings. Find more information at [scmb.uq.edu.au/industry-placements](http://scmb.uq.edu.au/industry-placements).

## Careers

Your advanced knowledge and technical skills are relevant to a range of modern biotechnologies and in demand globally.

You will find careers in many industrial, government and service sectors, including health, agriculture, production, law and commerce. Employment is also available in research organisations and startup ventures.

This degree is an excellent pathway into postgraduate programs, including the Doctor of Medicine.

## SAMPLE COURSES

Agricultural Biotechnology  
Analysis of Scientific Data  
Biomedical Science Research Skills  
Biostatistics and Experimental Design  
Chemical and Nano Biotechnology  
Innovation and Entrepreneurship  
Medical Biotechnology  
Molecular and Microbial Biotechnology  
Physical Basis of Biological Systems  
Plant Biology and Biotechnology  
Principles of Food Preservation  
Principles of Pharmacology  
Risk in Process Industries  
Science Industry Placement  
Synthetic Biology and Industrial Biotechnology  
Translational Chemistry and Data Processing

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**#1 in Australia for  
environmental sciences**

QS World University Rankings  
by Subject 2022

Bachelor of

# Environmental Management (Honours)

Discover how to critically assess the causes of environmental problems as you build your knowledge and skills in developing and managing solutions that address the many environmental challenges facing the world.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023 <sup>c</sup> ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023 <sup>c</sup>		DURATION	START SEMESTER	CAMPUS	HONOURS	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED					
705101	2376	78.00 / 27.75	78.65	77.15	4 years full-time (or part-time equivalent)	1, 2	St Lucia	Part of standard program, awarded based on cumulative weighted grade point average	Queensland Year 12 (or equivalent) English (Units 3 & 4, C)

See 'Program table explained' on page 7

<sup>c</sup> Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

<sup>d</sup> Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.

## Why Environmental Management (Honours) at UQ?

Learn from UQ's experts how to manage local to global environmental challenges. Gain the skills to address the sustainability issues that span natural through to urban environments. Build a foundation in environmental sciences with the added focus on social and economic disciplines, decision-making, problem-solving and policy analysis.

## What you will study

In your first 2 years of study, develop your understanding of the natural sciences. Learn the techniques and approaches to integrate biophysical, social, cultural, economic, legal and management factors. During your third year, undertake a 2-week field trip to investigate environmental management practices in a variety of contexts. Complete an industry placement to refine your understanding and skills in environmental management. In your final capstone year, undertake an in-depth research project or industry case study project in conjunction with an external client. You'll apply your knowledge and skills to a real environmental issue.

During your studies you'll learn scientific, social, economic and managerial strategies to improve environmental performance across all of society's activities. You will identify ways to reduce or eliminate existing and potential environmental concerns. Develop your multidisciplinary skills in

environmental management, decision-making and problem-solving across urban, industrial and rural environments.

Learn strategies to tackle complex global issues like climate change, pollution and land clearing. You'll discover how to critically assess the causes of environmental problems and develop better ways of managing and solving them.

## Placements and practical experience

In your third year, complete a full semester of industry placement and practical experience. Network with practitioners in government and industry as you undertake a supervised project and complete your industry placement program. In your final year, conduct an in-depth research project or case study in conjunction with an external industry client.

## Fieldwork

You'll be able to undertake field trips to a diverse range of environments including regional Queensland and international locations. In your third year apply your knowledge and skills during a compulsory 2-week field trip to observe environmental management in practice. Connect with potential employers and gain hands-on, practical skills valued highly by industry.

## Careers

You'll be prepared for employment in managerial, research, administrative and education roles. Employers include

consultancies, mining companies, government departments, landcare and catchment management groups, and national and international non-government organisations.

Opportunities are available in a variety of sectors, including:

- national parks and wildlife conservation
- sustainability advising
- environmental assessment and compliance
- natural resource management
- policy development
- government and commercial consultancies in environmental planning and management
- mining and resources industry
- environmental tourism
- environmental management.

## SAMPLE COURSES

Carbon and Energy Management  
Complexity, Action and Sustainable Futures  
Conservation Policy  
Cultural Heritage Management  
Environmental Impact Assessment  
Environmental Problem Solving  
Environment and Society  
Geographical Information Systems  
Sustainable Business Practice

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Bachelor of

# Environmental Science

Equip yourself with the knowledge and skills to understand the impacts of climate change and devise strategies to improve sustainability, manage ecosystems and preserve global biodiversity, clean water and food.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023 <sup>&lt;</sup> ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023 <sup>&gt;</sup>		DURATION	START SEMESTER	CAMPUS	HONOURS	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED					
738001	2458	80.00 / 28.75	80.95	80.95	3 years full-time (or part-time equivalent)	1, 2	St Lucia	Additional year of study	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); and one of Biology, Chemistry, Earth and Environmental Science or Physics (Units 3 & 4, C)

See 'Program table explained' on page 7

<sup><</sup> Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

<sup>></sup> Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.

## Why Environmental Science at UQ?

Study at Australia's most highly ranked university for research in environmental sciences. Expand your employment horizons with UQ's local, national and global networks. Become a skilled environmental scientist and understand the impacts of climate change. You'll learn to devise strategies to improve sustainability. Be equipped to manage ecosystems, preserve global biodiversity, and secure clean water and food resources. Help identify, develop and implement solutions to the many environmental challenges facing society from diminishing natural resources to degradation of environments.

## What you will study

Study core and advanced science and regulatory topics to understand and manage the changing planet. Learn to describe, monitor and predict environmental processes. Examine the effects of human activity on physical and biological environments. Gain scientific knowledge and practical experience in ecology, environmental toxicology, omics, natural resources and data science. Participate in extensive, practical field-based experiences and learn strategies to minimise conflict between growth, development and the environment.

You can choose to pursue a research career by undertaking an additional research honours year, which could lead to postgraduate studies.

## Placement and practical experience

Undertake extensive practical experience to develop your skills to deliver a range of environmental strategies, solutions and programs. You will participate in excursions, field-based activities and research opportunities in diverse subtropical and tropical ecosystems including World Heritage rainforests, the Great Barrier Reef, North Stradbroke Island (Minjerribah) and outback Australia.

## Careers

Find employment in organisations undertaking environmental monitoring, impact assessment and management, policy development in government agencies, mining, environmental tourism, sustainability advice and natural resource management, teaching, or research.

You will be in demand in a range of roles including:

- environmental adviser
- research scientist
- impact assessment scientist
- wildlife consultant
- soil carbon researcher
- toxicology consultant
- water quality specialist
- soil scientist
- data analyst.

## SAMPLE COURSES

Analysis and Communication of Biological Data  
Aquatic Environments  
Biogeography and Geomorphology  
Bioinformatics 1: Introduction  
Biostatistics and Experimental Design  
Carbon and Energy Management  
Chemistry  
Climatology and Hydrology  
Conservation  
Conservation  
Ecological Economics  
Ecology  
Ecology Field Studies  
Environmental Geochemistry  
Environmental Impact Assessment  
Environmental Omics  
Environment and Society  
Experimental Chemistry  
Foundations of Sustainable Development  
Genes, Cells and Evolution  
Geographical Information Systems  
Geospatial Processing and Web Mapping  
Introduction to Earth Observation Sciences (EOS)  
Landscape Ecology  
Living Oceans  
Macroecology & Biogeography  
Planet Earth: The Big Picture  
Pollution Science  
Spatial Analysis and Modelling  
The Soil Environment

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**Find a career in the advanced physical and mathematical sciences, which contribute an estimated \$145 billion annually to the Australian economy**

Australian Academy of Science, 2015

Bachelor of

# Mathematics

Study advanced mathematics and gain the foundation for a rewarding career. Hone your skills in areas that are in demand in today's data-driven economy.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023 <sup>&lt;</sup> ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023 <sup>&gt;</sup>		DURATION	START SEMESTER	CAMPUS	HONOURS	DUAL PROGRAM AVAILABLE	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED						
714401	2460	92.00 / 35.25	92.85	89.85	3 years full-time (or part-time equivalent)	1, 2	St Lucia	Additional year of study	Arts, Business Management, Commerce, Computer Science, Economics, Education (Secondary), Engineering (Honours), Science	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); <i>Specialist Mathematics (Units 3 &amp; 4, C) recommended</i>

See 'Program table explained' on page 7

<sup><</sup> Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

<sup>></sup> Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.

## Why Mathematics at UQ?

Develop your skills and knowledge with modelling and computer technology. Learn to solve problems in the physical and biological sciences, engineering, information technology, economics and business.

UQ's mathematics research and industry networks will widen your career options and help you gain the training that will set you apart in the job market now and in the future.

Choose from more than 60 mathematics and statistics courses – more than any other Queensland university.

## What you will study

You will gain quantitative and analytical skills and a solid foundation in calculus, linear algebra, discrete mathematics, statistics, mathematical analysis as well as modelling and programming. You will explore advanced problem-solving and logical thinking, communication systems, data handling and interpretation, and research. Deepen your knowledge of mathematical topics. Develop your conceptual ability and the sophisticated skills to apply mathematics across a variety of fields and industries. Gain the specialist expertise to stand out in the job market.

Specialise your studies with a major, or diversify your study with a minor in bioinformatics, computational science, computer science, physics or statistics. Or broaden your options in a dual program and graduate with 2 degrees with only one extra year of study. Choose from 8 dual program combinations.

## Majors

### Applied Mathematics

Build your foundational knowledge in applied mathematical analysis, mathematical modelling and numerical simulation techniques. Apply your expertise in areas such as natural resources and environmental modelling, biological science and engineering.

### Data Analytics and Operations Research

Develop skills in analysing large and complex data sets. Learn how to make effective decisions using optimisation and machine learning in financial services, logistics, engineering, science and research.

### Mathematical Physics

Explore the mathematical foundations of modern physics theories. Gain a mathematical understanding of contemporary science, including statistical mechanics, relativity theory and quantum physics.

### Pure Mathematics

Examine the intrinsic nature and fundamental properties of mathematical concepts. Expand your appreciation of the ubiquity, universality and beauty of mathematics while developing high-level skills in critical, analytical and abstract thinking.

### Statistics

Acquire the mathematical foundations and techniques necessary to understand and deal with chance and uncertainty through the design, collection, analysis and interpretation of data. Explore applications and the mathematical foundations of artificial intelligence.

## Placements and practical experience

Undertake a summer research project or internship through the School of Mathematics and Physics. Undergraduate research scholarships are available through UQ and some industry groups.

## Careers

Demand for quantitatively trained graduates is at an all-time high. You'll find opportunities in roles such as data scientist, bioinformatics or software engineer, research engineering lead, quantitative analyst, materials scientist, cryptographer, risk modeller or research mathematician.

## SAMPLE COURSES

### Applied Mathematics

Complex Analysis  
Scientific Computing

### Data Analytics and Operations Research

Mathematical Statistics  
Operations Research and Mathematical Planning

### Mathematical Physics

Abstract Algebra and Number Theory  
Algebraic Methods of Mathematical Physics

### Pure Mathematics

Abstract Algebra and Number Theory  
Functional Analysis

### Statistics

Deep Learning  
Statistical Modelling and Analysis

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**Complete a minimum  
of 480 hours of industry  
placement in your final year**

Bachelor of

# Occupational Health and Safety Science (Honours)

As the world focus on workplace safety and regulations grows, demand for OHS graduates is also increasing.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023 <sup>c</sup> ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023 <sup>b</sup>		DURATION	START SEMESTER	CAMPUS	HONOURS	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED					
729201	2331	78.00 / 27.75	96.45	96.45	4 years full-time (or part-time equivalent)	1	St Lucia	Part of standard program, awarded based on weighted grade point average of specific courses	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); and one of Biology, Chemistry or Physics (Units 3 & 4, C)

See 'Program table explained' on page 7

<sup>c</sup> Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

<sup>b</sup> Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.



*"The broad field of studies covered in the program has set me up to address many different workplace scenarios that I may come across throughout my career as an OHS professional."*

## Whitney Evans

Bachelor of Occupational Health and Safety Science (Honours)

Health and Safety Business Partner at Gladstone Regional Council

## Why Occupational Health and Safety Science (Honours) at UQ?

This unique program combines studies of health, psychology, law, ethics and management with practical skills gained through placements, worksite visits and industry experience. You'll learn scientific approaches to identifying, assessing and controlling chemical, physical and biological hazards.

You'll also learn about psychosocial health factors like stress, bullying, harassment and fatigue. With these key skills, you can monitor and modify work environments. You will be able to deliver education programs, analyse workplace data, and devise, evaluate and implement OHS management systems.

You can also undertake OHS auditing and inspections, complete accident investigations and ensure compliance with legislation.

## What you will study

You will study occupational hygiene, ergonomics, occupational health, safety science and risk management. Your first year of study will incorporate a strong basis in the foundation sciences as well as interaction with OHS professionals. Your second, third and fourth years will focus on core OHS areas of occupational health, ergonomics, safety science, occupational hygiene, and management, law, ethics and aspects of the environment.

## Placements and practical experience

In your final year, you will complete a minimum of 480 hours of placement with

one or 2 industry partners. This ensures that you are qualified and prepared to enter the workforce with diverse employment opportunities. Employers worldwide will recognise your skills and practical knowledge.

## Careers

OHS professionals with sound scientific knowledge are in short supply and high demand. You will be ready to work in remote, rural or urban regions in government, consultancy or the private sector. You will work in sectors such as mining, agriculture, retail, hospitality, construction, transport, manufacturing, leisure, tourism and healthcare.

OHS roles can offer mentoring by senior OHS staff, travel within Australia and overseas, and hands-on experience across the full range of OHS issues.

## SAMPLE COURSES

Integrated Anatomy and Physiology  
Introduction to Human Factors  
Occupational Health  
Occupational Health and Safety Law  
Occupational Health and Safety Management Systems  
Occupational Hygiene (I and II)  
Occupational Safety Science  
Physical Ergonomics  
Professional Practice and Emerging Issues in Occupational Health and Safety  
Research and Evaluation of Interventions in OHS  
Risk Management  
The Brain and Behavioural Systems

## For more information

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or scan the QR code





**Australia's only fully internationally accredited undergraduate veterinary science program**

Bachelor of

# Veterinary Science (Honours)

Taught at UQ's Gatton campus, you will access world-class facilities, teachers, research and knowledge during your program to become a fully qualified and internationally recognised veterinarian.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023* ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023*		DURATION	START SEMESTER	CAMPUS	HONOURS	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED					
736002	2378	99.00 / 42.50	99.00	95.00	5 years full-time	1	Gatton	Part of standard program, awarded based on grade point average of specific courses	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); Chemistry (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); and one of Physics or Biology (Units 3 & 4, C). Applicants must also complete a situational judgement test in the year of application

See 'Program table explained' on page 7

\* Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

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## Why Veterinary Science (Honours) at UQ?

Gain the specialist knowledge and practical skills to apply medical, diagnostic and therapeutic principles to companion, domestic, exotic, wildlife and production animals. Your program has been developed in continuous consultation with industry. You will access the latest research developments, coursework and placements and receive the most relevant, up-to-date knowledge and expertise to prepare you to become a veterinarian with a globally accredited qualification. On graduation, you'll be eligible to register as a veterinary science practitioner in Australia, New Zealand, the United Kingdom, South Africa, Singapore, Hong Kong or Malaysia and be eligible to sit the North American Veterinary Licensing Examination.

## What you will study

Your studies begin with foundational training in the anatomy, physiology, biochemistry, nutrition and behaviour of healthy domestic and wild animals. You will complete over 600 hours of clinical and laboratory practical training during your first 3 years and gain animal handling and husbandry skills. You will acquire a detailed knowledge of animal pathology and diagnostic skills and learn to link these to the manifestation and recognition of various disease processes. In your fourth year, you will undertake dedicated medicine and surgery courses for each of the major animal species. You will also complete population and public health training. This will be complemented with 130 hours of clinical practical work. Your final year

includes more than 1,400 hours of lecture-free training within university and privately owned practices. Throughout your program you'll also develop essential clinical skills and acquire professional competencies such as communication, business skills and self-development.

## Placements and practical experience

You will undertake over 400 hours of extramural studies\* involving placements on farms and other animal management enterprises, and within clinics, government offices and laboratories to provide authentic clinical and professional competencies and improve your work readiness. You will receive essential hands-on experience at UQ Gatton's Small Animal Hospital and Equine Specialist Hospital. Additionally, you may participate in summer or winter research scholarship programs, or develop your skills through volunteering in the on-campus animal and clinical facilities.

**Note:** Students are exposed to animals and agricultural environments as part of their learning. Immunisations against Q fever and tetanus are mandatory and students will be required to provide evidence of immunisations upon commencement of the program.

PRACTICAL ACTIVITY	HOURS
Practicals years 1-3	612 hours
Pre-clinical extramural studies*	480 hours
Clinical extramural studies*	400 hours
Fourth-year clinical practical work	130 hours
Fifth-year clinics	1480 hours
<b>TOTAL</b>	<b>3102 hours</b>

\* Extramural studies: Studies located or taking place off-campus.

## Situational judgement test

The Casper situational judgement test recognises attributes other than academic performance. For more information, see [study.uq.edu.au](http://study.uq.edu.au)

## Careers

As a fully qualified veterinarian you will work as a general practitioner in veterinary clinical practice. You can also seek employment in biosecurity, animal production and disease control, and the pharmaceutical livestock and biotechnology industries, or undertake research roles within universities and governments.

## SAMPLE COURSES

Animal and Veterinary Biology  
Animal Breeding and Molecular Genetics  
Animal Management for Veterinarians  
Companion Animal Clinical Studies  
Equine Clinical Studies  
Infectious Diseases  
Ruminant Medicine and Surgery  
Rural Veterinary Practice – Livestock Medicine  
Small Animals Clinics  
Veterinary Anaesthesia, Diagnostic Imaging and Emergency and Critical Care  
Veterinary Pharmacology, Therapeutics and Toxicology  
Veterinary Professional Practice  
Veterinary Systems Pathology and Medicine  
Veterinary Reproduction

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**Undertake clinical rotations  
and industry placements  
to acquire hands-on experience**

Bachelor of

# Veterinary Technology

Gain the theoretical and practical skills to become a para-veterinary healthcare specialist or enter a career in the broader animal health or welfare industries.

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023* ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023*		DURATION	START SEMESTER	CAMPUS	HONOURS	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED					
787309	2387	75.00 / 26.50	75.10	72.00	3 years full-time (or part-time equivalent)	1	Gatton	Additional year of study	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); General Mathematics or Mathematical Methods (Units 3 & 4, C). <i>Biology, Chemistry and/or Physics are recommended subjects</i>

See 'Program table explained' on page 7

\* Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

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## Why Veterinary Technology at UQ?

Learn from internationally regarded academics and access the world-class animal health facilities at UQ's Gatton campus. As a para-veterinary healthcare specialist, you will be equipped with critical thinking, problem-solving, and self-directed learning skills. You'll graduate with the expertise to take on a leadership role across a broad range of animal-related fields.

The Bachelor of Veterinary Technology may be used as a pathway into the Bachelor of Veterinary Science (Honours) program.

## What you will study

You'll study basic sciences of chemistry, biochemistry and mathematics plus animal handling and care, welfare and behaviour, applied and clinical nutrition, mechanisms of animal disease and diagnostic techniques. You'll learn about clinical aspects of small and large animal health, veterinary pharmacology and therapeutics. Build your expertise in veterinary surgical and medical nursing principles, and veterinary practice management. Elective options include equine exercise and rehabilitation, veterinary laboratory diagnostics, or molecular and quantitative genetics. As you progress through the program, choose from a wide range of elective courses to broaden or focus your skills or pursue an area of interest.

## Placements and practical experience

In your first and second years, you will gain at least 80 hours of practical sessions and extramural studies\* of 20 days. In your third year, you will complete clinical training, rotations and placements. These placements are great opportunities to establish industry contacts and gain current, industry-relevant experience. Beyond the formal curriculum, you can participate in summer or winter research scholarship programs in UQ's School of Veterinary Science. Or choose to develop your skills through volunteering in one of the many animal and clinical facilities within the School and on campus.

**Note:** Students are exposed to animals and agricultural environments as part of their learning. Immunisations against Q fever and tetanus are mandatory and students will be required to provide evidence of immunisations upon commencement of the program.

\*Extramural studies: Studies located or taking place off-campus.

## Get additional skills

Broaden your skills by concurrently enrolling in the Certificate IV in Veterinary Nursing, the Certificate III in Rural Operations or the Farm Ready program through UQ Skills (details available at [skills-training.uq.edu.au/programs](https://skills-training.uq.edu.au/programs)).

## Careers

You will find employment within the veterinary industry in veterinary practice, animal health biosecurity, veterinary pharmaceutical companies, animal nutrition companies, government agencies and councils, research institutions and the livestock sector.

Undertaking an honours year in either a research or clinical stream could lead to postgraduate studies.

## SAMPLE COURSES

Agricultural Biochemistry  
Animal Behaviour, Handling and Wellbeing  
Animal Health Technology  
Animal Nutrition and Technology  
Animal Therapeutics  
Applied Animal Physiology  
Applied Mathematics and Statistics  
Clinical Principles and Practices  
Large Animal Health and Management  
Preparation for Professional Practice  
Small Animal Health

### Electives

Veterinary Laboratory Diagnostics for Veterinary Technologists

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or scan the QR code







**Gain experience in UQ's wildlife research facilities and access some of the best animal and veterinary facilities in the southern hemisphere**

Bachelor of

# Wildlife Science

Build expertise in animal biology (anatomy, physiology and behaviour) directed towards the conservation and management of wild animals. Study a broad range of native and exotic species, including amphibians, reptiles, birds and mammals. Learn how to manage wildlife populations in the field (*in situ*) and in captivity (*ex situ*).

QTAC CODE	UQ CODE	MINIMUM SELECTION THRESHOLD 2023* ATAR / IBAS	LOWEST ATAR TO RECEIVE AN OFFER 2023*		DURATION	START SEMESTER	CAMPUS	HONOURS	DUAL PROGRAM AVAILABLE	ADMISSION REQUIREMENTS
			ADJUSTED	UNADJUSTED						
787209	2388	73.00 / 25.75	73.40	73.40	3 years full-time (or part-time equivalent)	1	Gatton	Additional year of study	Agribusiness	Qld Year 12 (or equivalent) General English subject (Units 3 & 4, C); General Mathematics or Mathematical Methods (Units 3 & 4, C). <i>Biology, Chemistry and/or Physics are recommended subjects</i>

See 'Program table explained' on page 7

\* Minimum (adjusted) selection threshold 2023 is the minimum score that was considered for an offer of a place to all applicants.

> Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2023. The Lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.

## Why Wildlife Science at UQ?

Gain expertise in animal biology and conservation. You'll study native and exotic species including amphibians, reptiles, birds and mammals. Focus on the management of populations in the wild (*in situ*) and in captivity (*ex situ*). You'll study the human-wildlife interaction and their successful co-existence. You will explore important interactions including those associated with agricultural practice, the peri-urban landscape and the role of wildlife in zoonotic disease.

Learn from leading wildlife scientists and biologists, and gain the skills to create and evaluate wildlife management programs for captive and wild animals. UQ is the most highly ranked Australian university for Environmental Science and Agriculture research globally. Gain hands-on wildlife experience in UQ's wildlife research facilities and have access to some of the best animal and veterinary facilities in the southern hemisphere. [hiddenvalewildlife.uq.edu.au](http://hiddenvalewildlife.uq.edu.au)

## What you will study

You will learn to implement and evaluate wildlife management programs for captive and free-ranging wildlife. Develop a deep scientific knowledge of wildlife anatomy and physiology, captive breeding, reproduction, nutrition, health, husbandry, ecology, welfare and behaviour. Your excellent wildlife trapping, identification and animal handling skills will put you in demand in the wildlife and vertebrate pest management industries in Australia.

## Dual program

Double your skills and your opportunities with a dual degree. You can study the Bachelor of Wildlife Science as a dual 4-year degree with the Bachelor of Agribusiness. Combine your practical business skills with your interests in wildlife science. This is a perfect combination if you are interested in establishing a wildlife management business (tourism or wildlife consultant) or pursuing a management position in the zoo industry.

## Placements and practical experience

You'll have the opportunity to be involved with industry placements in zoos, sanctuaries, wildlife parks, government agencies, welfare organisations and animal breeding enterprises. Industry placements will add to your practical, hands-on work experience. They are also great opportunities to establish industry contacts and gain current, industry-relevant experience.

**Note:** Students are exposed to animals and agricultural environments as part of their learning. Immunisation against Q fever is mandatory and students will be required to provide evidence of immunisation upon commencement of the program. Immunisation against tetanus is also recommended.

## Get additional skills

You can also broaden your skill set by concurrently enrolling in the Certificate III in Rural Operations or the Farm Ready program through UQ Skills (details available at [skills-training.uq.edu.au/programs](http://skills-training.uq.edu.au/programs)).

## Careers

You will find employment in research, managerial, consultancy and educational roles as a wildlife scientist, wildlife technician, conservation officer in ecotourism, land resource manager, vertebrate pest and wildlife manager in government agencies, NGOs or wildlife sanctuaries and zoos. Become a wildlife consultant at the human-wildlife interface to help manage wildlife interactions with agriculture, mining, peri-urban landscapes and zoonotic disease threats. Undertake an additional honours year and further studies, such as a PhD, to enhance your research skills and expertise.

## SAMPLE COURSES

Animal Behaviour, Handling and Wellbeing  
Animal Breeding and Genetics  
Animal Health and Epidemiology  
Australian Vertebrates  
Biology of Australian Marsupials and Monotremes  
Elements of Ecology  
Management and Husbandry of Zoo Animals  
Wildlife Population Management  
Wildlife Technologies  
Human Wildlife Interactions

**For more information**  
Visit [study.uq.edu.au](http://study.uq.edu.au)  
or scan the QR code



# Gatton

Our rural campus is located near the town of Gatton, 87 kilometres west of the Brisbane CBD (around an hour's drive). It offers a laid-back and friendly lifestyle with on-campus accommodation, a publicly accessible motel and a variety of sporting facilities.

## Food and retail

You can buy food and drinks and catch up with fellow students at the Coffee Pod, Dining Hall and Walkway Cafe. Whether you want a sit-down hot or cold buffet meal, a tasty snack or just a grab-and-go treat, you'll find a variety of food options on offer.

There's a bookshop where you can buy and sell books, and purchase a large range of stationery, lab coats, software and gifts at competitive prices. A post office is located next to Student Central.

## Entertainment

The central walkway is the hub of entertainment at Gatton, with a range of events and festivals for students and staff. Keep an eye out around campus for what is taking place throughout the year. Join a social, sporting, academic or special interest student club or society or take part in a range of wellness activities on offer at the campus.

## Teaching and research facilities

The campus houses production animals, horticultural fields, a plant nursery, post-harvest facilities, research laboratories and greenhouses, a wildlife facility, specialist veterinary and equine hospitals, and some of the best animal teaching facilities in the southern hemisphere.

## Fitness and sport

UQ Sport Gatton is home to a heated 25-metre pool, as well as a gym equipped with extensive weights and cardio equipment. Several group fitness classes are offered each week, or you can grab a friend and head to the squash, tennis and basketball courts, cricket nets, indoor sports hall, or one of three playing fields.

Visit [uqsport.com.au/gatton](https://uqsport.com.au/gatton) to see how you can get active.

## Student Central

Visit Student Central in the NW Briton Annexe to collect your student ID card, get advice from Faculty of Science staff on your program, or to book an appointment with a Student Services counsellor or study adviser.

## Library

At the heart of the campus, the JK Murray Library, a place for you to study, meet and relax. Access 24/7 spaces with height-adjustable desks, comfy couches, an Energy Pod, rooms you can book for group meetings or quiet study, kitchens, device docks, and recharge stations.

Our physical collection is complemented by extensive online resources, and our knowledgeable staff can help you find what you need. We offer training in Adobe Suite, Microsoft Office, and more. Classes are added often, so check in with us regularly.

Need help? Our friendly AskUs team is available in person and online to provide information and IT support.

## Healthcare

UQ Gatton Medical Centre looks after the health needs of UQ staff and students on campus. Students with a Medicare card can have their consultations with a doctor bulk-billed.

Visit [uqhealthcare.org.au/gatton](https://uqhealthcare.org.au/gatton) for a full list of our health services.

## Free inter-campus bus service

UQ provides a free inter-campus bus service between UQ Gatton and UQ St Lucia for students and staff.



Take a virtual tour  
of Gatton campus



**UQ Gatton**

90 mins (one way) by  
free inter-campus bus

**UQ Herston**

**UQ St Lucia**

**Brisbane**





**St Lucia sporting facilities include 30 sporting spaces, 2 heated pools, an Olympic-standard athletics track and a 3-level weights and cardio gym**



# Student lifestyle

Study is only one part of your life as a UQ student. Our easily accessible campuses offer a full university experience, where you will make life-long friends and broaden your horizons by studying, working and socialising with people from all over the world.

## UQ St Lucia

Considered one of the most beautiful campuses in the world, UQ's St Lucia campus is a vibrant mix of old sandstone buildings, modern architecture, parklands and lakes.

It's a city within a city, with everything you need to study, live and relax.

You will find world-class teaching and research facilities at UQ St Lucia, including Queensland's largest research library plus fully equipped laboratories and lecture theatres. The campus caters to all study and living needs, including excellent sporting facilities, museums, art galleries, shops, a post office, restaurants and refectories. UQ St Lucia is also a great place to enjoy university life with market days and cultural and sporting events, or you can join one of the 200+ clubs and societies.

Research institutes on campus, many with a multidisciplinary focus, include:

- Australian Institute for Bioengineering and Nanotechnology (AIBN)
- Global Change Institute (GCI)
- Institute for Molecular Bioscience (IMB)
- Institute for Social Science Research (ISSR)
- Mater Research Institute-UQ
- Queensland Alliance for Agriculture and Food Innovation (QAAFI)
- Queensland Brain Institute (QBI)
- Sustainable Minerals Institute (SMI).

## UQ Herston

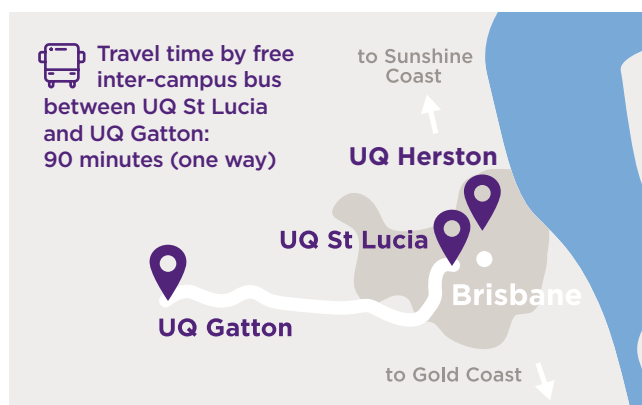
UQ Herston is home to our Medicine, Dentistry and Public Health programs, as well as state of the art clinical facilities including:

- Herston Imaging Research Facility
- Oral Health Centre
- RECOVER Injury Research Centre
- UQ Centre for Clinical Research
- Surgical, Treatment and Rehabilitation Service.

UQ shares premises with the Royal Brisbane and Women's Hospital and the QIMR Berghofer Medical Research Institute, creating a health-focused community where students gain practical experience alongside industry professionals and leading researchers.

## Travel options to UQ campuses

	UQ ST LUCIA	UQ GATTON	UQ HERSTON
	7km from Brisbane CBD	5km from Gatton CBD 1 hour from Brisbane 30 mins from Toowoomba	5km from Brisbane CBD
	10+ direct bus routes One arrives every 2 mins at the UQ Lakes bus stop	4+ free inter-campus buses daily	2 mins to Inner Northern Busway from the CBD
	5+ train stations within 4km	Rail-bus service runs between Brisbane and Gatton	3+ train stations within 2km
	15 mins between each ferry		





# Plan your finances

University is a valuable investment in your future. Knowing what it costs will help you manage your money.



## Fees

Fees for 2024 are expected to be available from November 2023.

Before you enrol, faculty academic advisers can help you develop a study plan.

[my.uq.edu.au/fee-schedules](https://my.uq.edu.au/fee-schedules)



## Budgeting

Don't forget to budget for accommodation, books, study materials and transport.

*Study Australia* provides a helpful online Cost of Living Calculator to estimate your weekly, monthly and yearly living costs.

[costofliving.studyaustralia.gov.au](https://costofliving.studyaustralia.gov.au)

## Fees and costs

### Course fees and student contributions

Most undergraduate places for domestic students at UQ are funded partly by the Australian Government (Commonwealth support) and partly by you (student contribution). You need a Unique Student Identifier (USI) to obtain a Commonwealth-supported place.

[usi.gov.au](https://usi.gov.au)

Fees are determined by the courses you choose, not the program you're enrolled in, so there is no fixed fee for a program. Because most students can choose different electives during their program, costs will vary.

However, indicative annual fees are listed with each program on our Study website to help you plan your expenses.

If you're an Australian or New Zealand citizen, or an Australian permanent humanitarian visa holder and have a Commonwealth-supported place, you may also qualify for the Higher Education Loan Program (HELP) to defer payment of your student contribution and Student Services and Amenities Fee (SSAF). You will need a tax file number to obtain a HELP loan.

[ato.gov.au](https://ato.gov.au)

International students pay full tuition fees.

If you have a Commonwealth supported place, your student contribution amount depends on the fee band level of the courses you choose (see table above right).

### Commonwealth-supported fee bands

BAND	AREA OF STUDY	ANNUAL STUDENT CONTRIBUTION*
4	Law, accounting, administration, economics, commerce, communications, society and culture	\$15,142
3	Dentistry, medicine, veterinary science	\$11,800
2	Other health, allied health, built environment, computing, engineering, surveying, science, environmental studies, pathology, visual and performing arts, professional pathway psychology, professional pathway social work	\$8,301
1	Agriculture, English, mathematics, education, clinical psychology, Indigenous and foreign languages, nursing, statistics	\$4,124

\*2023 figures only, based on a full-time (16 units) workload; figures indexed annually

### Monthly cost of living

	STUDENT LIVING IN ON-CAMPUS COLLEGE	STUDENT LIVING OFF-CAMPUS / STUDENT ACCOMMODATION
Rent	\$2,000–\$2,800*	\$720–\$2,240
Utilities (gas, electricity, water)	included in rent	\$150–\$175**
Food	included in rent^	\$560–\$1,120
Mobile phone / internet	\$60–\$120	\$60–\$120
Public transport	\$120	\$120
<b>TOTAL</b>	<b>\$2,180–\$3,040</b>	<b>\$1,610–\$3,755</b>

\* On-campus and off-campus accommodation costs are usually lower in Gatton.

\*\* Many student accommodation providers include electricity, gas and internet costs in rent. Check with your provider to be sure.

^ Catered meals are included at UQ Residential colleges.

UQ Res (Kev Carmody House and Walcott Street) does not include catered meals.

This table should be taken as a guide only. Study Australia provides a helpful online [cost of living calculator](https://costofliving.studyaustralia.gov.au) to estimate your weekly, monthly and yearly living costs in greater detail.

### Student Services and Amenities Fee

The Student Services and Amenities Fee (SSAF) is a compulsory fee that goes toward non-academic services for students, such as support services, advocacy, study skills, career development and employability.

UQ levies the SSAF — which was capped at a maximum of \$326 for 2023 — according to whether you're an internal or external student. The fee is indexed annually.

[bit.ly/uq\\_ssaf](https://bit.ly/uq_ssaf)

### Keeping your costs down

- Investigate the financial support and fee payment options offered by Centrelink.  
[servicesaustralia.gov.au](https://servicesaustralia.gov.au)
- Explore the scholarships on offer (see page 2).
- Enjoy UQ Union's free and low-cost entertainment and activities, such as Morning Marmalade and Kampus Kitchen.  
[uq.com.au](https://uq.com.au)
- Get concessions and student discounts at participating retailers and institutions with your UQ student card.

# UQ Living

**Accommodation for every journey.** Beyond your books and classes, where you choose to live is also part of the learning journey. Whether you want to experience UQ living on campus or in accommodation outside of university, we're here to help curious minds feel right at home.

## On-campus living

Welcome to a truly immersive university experience. Join us on campus and connect to a community that centres around you and your education.

### UQ Residential Colleges

Make lifelong friendships in a welcoming student community. Our 10 residential colleges provide a place where you can make memories and connections that stay with you long after graduation:

- Cromwell College
- Duchesne College
- Emmanuel College
- Grace College
- International House
- King's College
- St John's College
- St Leo's College
- The Women's College
- Union College.

Living in a UQ college also means access to:

- a welcoming, collegial community
- 24/7 onsite staff support and pastoral care
- well-established academic communities and alumni networks
- inter-college sporting, cultural, community and social activities
- outstanding leadership, career mentoring and wellbeing programs.

With their unique and historical connection to the University, UQ colleges have an ideal on-campus home for everyone.

### Gatton Halls of Residence

If you're studying at Gatton, you can stay in the Gatton Halls of Residence. The Halls have provided our students with a home since 1897 and offer a strong community atmosphere on campus. With 436 well-equipped rooms, there's a place for you at Gatton.

### UQ Residences

Kev Carmody House is UQ's new student residence exclusively for UQ students. Located in the heart of our St Lucia campus, Kev Carmody House has the convenience of being just minutes away from classes, and features:

- 610 light-filled and spacious one-bedroom rooms with ensuites
- a wide range of social areas to cook and catch up with new friends
- world-class facilities and a stunning rooftop pool deck
- an engaging student life program.

More than a place to study, Kev Carmody House is a true home on campus where you can belong and thrive in a vibrant community to call your own.

## UQ Accommodation team

Our UQ Accommodation team can help you find your ideal home. The team offers free information sessions before classes start, and they can also give you advice, check documentation for you, and direct you to useful material online.

### Guaranteed accommodation

When you apply through UQ Guaranteed Accommodation, you're able to secure your accommodation prior to arriving in Brisbane and commencing studies at UQ.

The UQ Residential Colleges (on campus) and UQ Approved Providers (off campus) set aside a guaranteed number of rooms so you're able to compare, choose and secure the most appropriate accommodation easily.

Find out more at [bit.ly/guaranteedaccommodation](https://bit.ly/guaranteedaccommodation)

## Off-campus living

From city living to suburban share houses, you'll find a place to stay in no time.

### Purpose-built student living

Join students from universities across Brisbane at one of our recommended student accommodation providers.

A variety of studio, single-bedroom and twin share options is available.

### Private housing

Would you like to branch out from the uni community? You might like to share a house or apartment with other people. Brisbane's rental market features everything from low-cost share houses to high-rise apartments, while Gatton offers a range of affordable share houses. To find a room, apartment or house, first check our UQ Rentals database at [rental.uq.edu.au](https://rental.uq.edu.au). Alternatively, there are private rental accommodation websites, and you can rent directly from real estate agents.



Visit:  
[accommodation.uq.edu.au](https://accommodation.uq.edu.au)  
to discover your new home.



ACCOMMODATION  
SCHOLARSHIPS  
AVAILABLE



**UQ has more than 20,000 international students from 137 countries**

# Are you an international student?

While a lot of information in this guide is relevant to you, certain key information may be different for international students.

## You are an international student if you are:

- not a citizen of Australia or New Zealand, or
- not an Australian permanent resident, or
- a temporary resident (visa status) of Australia.

## Eligibility for UQ study

For admission into undergraduate programs at UQ, you must have:

- completed secondary studies equivalent to Queensland Year 12 with a score comparable to the ATAR or Queensland Year 12 Rank (prior to 2020) specified for your program
- satisfied individual program requirements (e.g. specific subject prerequisites, auditions or interviews)
- satisfied UQ's English language proficiency requirements.

If you do not meet these criteria, you might consider taking a foundation program bridging course or English language pathway offered by UQ College.

## Pathway options

[study.uq.edu.au/admissions/undergraduate/consider-your-pathway-options](https://study.uq.edu.au/admissions/undergraduate/consider-your-pathway-options)

## Applying to UQ

A UQ degree is a qualification the world will recognise. If you've got the ability, commitment and ambition to make the most of UQ, then we want to hear from you.

[study.uq.edu.au/admissions](https://study.uq.edu.au/admissions)

## Study options at UQ

If you would like to know more about your study options at UQ, enquire through our online form and a UQ adviser will respond. You can also register to speak to a student adviser.

We also have a range of publications, including the international undergraduate and postgraduate student guide, to help you.

## Contact Us

[study.uq.edu.au/contact-us](https://study.uq.edu.au/contact-us)

## Program guides

[uq.edu.au/study-guides](https://uq.edu.au/study-guides)

## Fees

As an international student, you will pay tuition fees, and potentially other non-tuition fees. UQ has program-based tuition fees for coursework award programs, meaning that all courses within a program are charged at the same tuition fee rate per unit for a given academic year. Some programs also have additional costs.

Non-tuition fees paid to the University may include the student services and amenities fee, books and equipment, health insurance, administration, accommodation, and assistance to apply for or hold a student visa.

[study.uq.edu.au/admissions/undergraduate/review-fees-and-financial-support](https://study.uq.edu.au/admissions/undergraduate/review-fees-and-financial-support)

## Other expenses

International students applying to study in Australia must have a student visa or an alternative visa that enables them to study full-time on campus. Please consider expenses such as visa and medical (pre-departure) fees, general living expenses, establishment costs such as buying furniture, paying a rental bond and setting up electricity, gas and mobile phone accounts, as well as return airfares, and Overseas Student Health Cover (OSHC) when you plan your budget.

[study.uq.edu.au/university-life/living-in-brisbane/cost-living](https://study.uq.edu.au/university-life/living-in-brisbane/cost-living)



*"UQ is a welcoming place that helped me spread my wings and create valuable connections. Through UQ, I not only learned theoretical knowledge, I also learned how to broaden my network by volunteering in events and joining clubs. So don't be scared to branch out of your comfort zone and try out as many experiences as you can!"*

## Nadyne Rivai

Bachelor of Communication graduate



# Applying to UQ

Follow the steps to apply to UQ and start on the path to your future.

## STEP

# 1

### Choose

#### Choose your program

- Read your program options (see pages 8–38).
- Visit [study.uq.edu.au](https://study.uq.edu.au).

**TIP:** Check that you meet eligibility, merit and other entry requirements and meet any specific program deadlines.

A range of study area guides and other UQ publications can help you choose the right program.

[uq.edu.au/study-guides](https://uq.edu.au/study-guides)

## STEP

# 2

### Apply

#### Apply via QTAC

Apply for admission through the Queensland Tertiary Admissions Centre (QTAC). The QTAC website explains how to apply and the entry requirements you need.

[qtac.edu.au](https://qtac.edu.au)

## STEP

# 3

### Accept

#### Accept your offer

1. Log in to the QTAC website.
2. Accept your offer.
3. Activate your UQ student account.
4. Go to [my.uq.edu.au/starting-at-uq](https://my.uq.edu.au/starting-at-uq) and follow the instructions.
5. Get excited about starting at UQ!

## STEP

# 4

### Enrol

#### Enrol in courses

1. Access your program rules and course list at [my.uq.edu.au/starting-at-uq](https://my.uq.edu.au/starting-at-uq).
2. Choose your courses at [my.uq.edu.au/programs-courses](https://my.uq.edu.au/programs-courses).
3. Enrol online at [sinet.uq.edu.au](https://sinet.uq.edu.au).
4. Select preferred class times via My Timetable (in my.UQ portal).
5. Pay fees (see page 41).

## STEP

# 5

### Prepare

#### Prepare for Week 1

- Complete the steps at [my.uq.edu.au/starting-at-uq](https://my.uq.edu.au/starting-at-uq).
- Attend a Getting Started session.
- Check if you need to attend any program sessions before Orientation Week.
- Pick up your student ID card.
- Get answers to your questions by emailing [starting@uq.edu.au](mailto:starting@uq.edu.au).

## STEP

# 6

### Get ready!

#### Get ready for the ultimate university experience

- Orientation Week – get your first taste of #uqlife with fun-filled events.
- Connect Week – join the social scene, make new friends and link in with your academic circle.
- Instagram (@UniofQld) or Snapchat (UniofQld) your UQ experience to your friends.

\* This information applies to domestic students. If you are an international student, please visit [study.uq.edu.au/admissions](https://study.uq.edu.au/admissions).

# Study options

UQ offers more than 140 exciting undergraduate programs to help build your dream career. For more details, check out our range of publications, or go to [study.uq.edu.au](https://study.uq.edu.au)



## Arts, Humanities, Social Sciences and Education

Advanced Humanities (Honours)  
Arts  
Communication  
Criminology and Criminal Justice  
Education (Primary)  
Education (Secondary)  
International Studies  
Journalism  
Music (Honours)  
Politics, Philosophy and Economics (Honours)  
Social Science



## Health, Behavioural Sciences and Medicine

Biomedical Science  
Clinical Exercise Physiology (Honours)  
Dental Science (Honours)  
Exercise and Nutrition Sciences  
Exercise and Sport Sciences (Honours)  
Health Sciences  
Health, Sport and Physical Education (Honours)  
Medicine  
Midwifery  
Nursing  
Occupational Therapy (Honours)  
Pharmacy (Honours)  
Physiotherapy (Honours)  
Psychological Science (Honours)  
Social Work (Honours)  
Speech Pathology (Honours)



## Business, Economics and Law

Advanced Business (Honours)  
Advanced Finance and Economics (Honours)  
Business Management  
Commerce  
Economics  
Laws (Honours)  
Politics, Philosophy and Economics (Honours)  
Tourism, Hospitality and Event Management



## Science, Mathematics, Agriculture and Environment

Advanced Science (Honours)  
Agribusiness  
Agricultural Science  
Biomedical Science  
Biotechnology  
Environmental Management (Honours)  
Environmental Science  
Mathematics  
Occupational Health and Safety Science  
Science  
Veterinary Science (Honours)  
Veterinary Technology  
Wildlife Science



## Engineering, Design, Computing, Architecture and Planning

Architectural Design  
Computer Science  
Design  
Engineering (Honours)  
Information Technology  
Regional and Town Planning



## Central guides

- Domestic Undergraduate (pictured left)
- International Undergraduate and Postgraduate (international students can visit [uq.edu.au/study-guides](https://uq.edu.au/study-guides) to access the latest international student guides)

Have a question about  
programs in this guide?

**Faculty of Science – St Lucia campus**  
07 3365 1888  
[enquire@science.uq.edu.au](mailto:enquire@science.uq.edu.au)  
[science.uq.edu.au](http://science.uq.edu.au)

**Faculty of Science – Gatton campus**  
07 5460 1276  
[enquire@science.uq.edu.au](mailto:enquire@science.uq.edu.au)  
[science.uq.edu.au](http://science.uq.edu.au)

Have a question about  
living and studying at UQ?

**Future Students Contact Centre**  
07 3346 9872  
[study.uq.edu.au/contact](http://study.uq.edu.au/contact)

Have a question about  
entry requirements and  
admission to UQ?

**UQ Admissions**  
07 3365 2203  
[admissions@uq.edu.au](mailto:admissions@uq.edu.au)  
[study.uq.edu.au/admissions](http://study.uq.edu.au/admissions)

Key dates

**Tertiary Studies Expo (TSXPO)**

RNA Showgrounds  
Saturday and Sunday 15–16 July 2023

**UQ Open Day 2023**

St Lucia campus Sunday 6 August 2023  
Gatton campus Sunday 20 August 2023

**Semester 1, 2024**

Classes commence  
Monday 19 February 2024

CRICOS Provider 00025B  
TEQSA PRV12080

**Disclaimer**

The information in this Guide is accurate as at March 2023. However, the University has many programs and courses, and refreshes and updates its programs and course offerings from time to time and without notice. It is your responsibility to visit [study.uq.edu.au](http://study.uq.edu.au) for up-to-date information.

All costs and fees quoted in this publication are in Australian dollars (A\$).