Science
Mathematics
Agriculture
and Environment

2025
Undergraduate Programs
Advanced Science (Honours)
Agribusiness
Agricultural Science
Biotechnology
Environmental Management (Honours)
Environmental Science
Mathematics
Science
Veterinary Science (Honours)
Veterinary Technology
Wildlife Science
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, industry-led programs taught by world-leading academics and be equipped with the skills and knowledge you will need to address evolving global scientific challenges.

Largest choice of science disciplines
Access a huge diversity of disciplines leading to traditional and emerging cross-disciplinary science careers. Incorporate broader options for careers in high growth industry sectors such as agriculture, biomedical science, veterinary science, the environment, and food technology.

Exceptional learning opportunities
Your highly awarded teachers help you gain insights through case studies and scenarios and bring their research and industry experience into your classroom. Participate in online interactive modules incorporating virtual objects using immersive visualisation eLearning tools. Build and extend your technical and applied expertise through laboratory-based practicals, workshops, Australian or international field studies, internships and work experience. Blend discipline-focused with practical knowledge to develop your analytical, teamwork and problem-solving skills for a career in industry or research.

Practical experience
Interact with industry representatives, undertake professional placements or internships, participate in the Summer Research Program with award-winning UQ researchers, and integrate industry-based training and real-life projects into your theoretical studies. Your program may incorporate a year of research-intensive study called ‘honours’, or choose to complete honours as an additional component to gain valuable project management and research skills. 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.

Great career outcomes
Find job opportunities globally among the largest employers of scientists, technologists, business managers, consultants and other science-based professionals. 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. Access a strong global network of science alumni to connect you into job opportunities.

Agriculture
1st in Australia
QS World University Rankings by Subject 2023
4th in the world
NTU Performance Ranking of Scientific Papers for World Universities 2023

Biological Science
1st in Australia
32nd in the world
Times Higher Education Rankings 2023

Biotechnology
1st in Australia
10th in the world
Academic Ranking of World Universities 2023

Chemistry
3rd in Australia
QS World University Rankings by Subject 2023

Environmental Sciences
1st in Australia
20th in the world
QS World University Rankings by Subject 2023

Food Science and Technology
1st in Australia
23rd in the world
Academic Ranking of World Universities 2023

Geography
6th in Australia
51–75 in the world
Academic Ranking of World Universities 2023

Veterinary Science
44th in the world
QS World University Rankings by Subject 2023

*QS World University Rankings 2022
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Biophysics Minor 16
Cell Biology Extended Major/Major/Minor 16
Chemical Biology Minor 16
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Computational Science Minor 18

Computer Science
Extended Major/Major/Minor 18
Data Science Minor 18
Developmental Biology Minor 19
Earth Science
Extended Major/Major/Minor 19
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Food Technology Major 21
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Study options Inside back cover

Disclaimer
The information in this Guide is accurate as at February 2024. However, the University has many programs and courses, and refreshes and updates its programs and course offerings from time to time without notice. It is your responsibility to visit study.uq.edu.au for up-to-date information. All costs and fees quoted in this publication are in Australian dollars (A$).

Front Cover
Jinyang Tang
Bachelor of Advanced Science (Honours) student

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

— Reconciliation at UQ
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 the year 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, visit employability.uq.edu.au/find-a-job

Experience UQ before you arrive
UQ offers students in Years 10-12 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 Residential
Junior Physics Odyssey
4 days On campus
Queensland Mathematics Summer School
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

UQ Open Day
St Lucia campus 4 August 2024
Gatton campus 18 August 2024

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

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 2024, or you completed Year 12 in 2023 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.

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.

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

Get in early
Scholarship applications close at different times throughout the year – plan your applications and apply early so you don’t miss out!

scholarships.uq.edu.au

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Program table explained

<table>
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<tr>
<th>QLD Code</th>
<th>ACT</th>
<th>NSW</th>
<th>SA/N.T</th>
<th>TAS</th>
<th>VIC</th>
<th>WA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min Grade of C in Units 3 and 4</td>
<td>Achieve 50% in 1 majors only</td>
<td>Performance Band 1-3</td>
<td>C+ or better (from Publicly Examined Subjects (PES) only)</td>
<td>SA or better (Exit level of achievement)</td>
<td>26 or better (Study score)</td>
<td>50% (Subject scaled mark)</td>
</tr>
<tr>
<td>• English or • English as an Additional Language &amp; Literacy Extension</td>
<td>English Language and Literature World Literature ESL (English as a Second Language)</td>
<td>English Standard English Advanced English as an Additional Language or Dialect English Extension</td>
<td>English Literature Writer’s Workshop World Literature English Communication English Literacy Studies 1 or 2</td>
<td>General Mathematics Mathematics Studies Quantitative Methods</td>
<td>English Language Literature English (EAL or ESL)</td>
<td>• WACE English • English (Stage 2 or 3) • English/ESL Students • English Literature • English Course • English as an Additional Language or Dialect</td>
</tr>
<tr>
<td>General Mathematics</td>
<td>Mathematical Applications</td>
<td>Maths Standard 2 (U2)</td>
<td>General Mathematics Mathematics Studies Quantitative Methods</td>
<td>Mathematics Methods (SSC) Math Methods – Foundations</td>
<td>Further Mathematics</td>
<td>• Maths 1 • Maths IV • Modelling with Mathematics Mathematics Stage 2C/D • Mathematics Stage 3A/B • Discrete Mathematics</td>
</tr>
<tr>
<td>Mathematical Methods</td>
<td>Specialist Mathematics Mathematical Advanced Extended Further Mathematics Mathematical Methods Mathematics</td>
<td>Mathematics Advanced (U2)</td>
<td>Mathematical Methods Mathematics Methods (SSC) Maths Stage 2 or 3 Algebra and Geometry Analysis and Statistics Mathematics</td>
<td>Specialist Mathematics Mathematics Specialised (SSC) Maths Stage 2 and 3</td>
<td>Specialist Mathematics</td>
<td>• Specialist Mathematics • Applicable Mathematics • Mathematics III • Mathematics Specialist Stage 3C/D • Mathematics Specialist Stage 3A/B</td>
</tr>
<tr>
<td>Specialist Mathematics</td>
<td>Specialist Mathematics Mathematics Advanced Extended</td>
<td>Mathematics Extension 1 and 2</td>
<td>Specialist Mathematics Mathematics 2</td>
<td>Mathematics Specialised (SSC) Maths Stage 2 and 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>Physics Electronics</td>
<td>Science (4U) Physics (2U to 4U)</td>
<td>Physics</td>
<td>Physics (SSC) Applied Science Physical Sciences Physical Sciences</td>
<td>Physics</td>
<td>• Physics • Physical Science Physics (Stage 3)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry</td>
<td>Science (3U or 4U) Chemistry (2U) Chemistry</td>
<td>Chemistry</td>
<td>Chemistry</td>
<td>Chemistry</td>
<td>• Chemistry • Chemistry (Stage 3)</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>Biology Human Biology Biological Science</td>
<td>Biology (2U to 4U) Biology</td>
<td>Biology</td>
<td>Biology</td>
<td>Biology</td>
<td>• Biology • Biology • Biological Science • Human Biological Sciences</td>
</tr>
<tr>
<td>Earth &amp; Environmental Science</td>
<td>Earth &amp; Environmental Science Geology</td>
<td>Earth &amp; Environmental Science Science Extension</td>
<td>Earth &amp; Environmental Science</td>
<td>Earth Science</td>
<td>Earth Science</td>
<td>• Earth Science • Geological Science • Earth &amp; Environmental Science ATAR</td>
</tr>
</tbody>
</table>

Prerequisite interstate subject equivalents

- Science, Mathematics, Agriculture and Environment 2025
<table>
<thead>
<tr>
<th>BACHELOR DEGREE IN</th>
<th>PREREQUISITES</th>
<th>DURATION (YR)</th>
<th>LOWEST ATAR TO RECEIVE AN OFFER 2024*</th>
<th>CAMPS</th>
<th>OTAC CODE</th>
<th>SEE PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Science (Honours)</td>
<td>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</td>
<td>4F or P</td>
<td>93.05 / 90.05</td>
<td>H*, S</td>
<td>731901</td>
<td>9</td>
</tr>
<tr>
<td>Agribusiness</td>
<td>English and General Mathematics or Mathematical Methods</td>
<td>3F or P</td>
<td>72.15 / 72.15</td>
<td>G, S</td>
<td>766001</td>
<td>30</td>
</tr>
<tr>
<td>Agribusiness / Agricultural Science</td>
<td>English and General Mathematics or Mathematical Methods</td>
<td>4F or P</td>
<td>73.20 / 71.60</td>
<td>G, S</td>
<td>766001</td>
<td>11</td>
</tr>
<tr>
<td>Agribusiness / Wildlife Science</td>
<td>English and General Mathematics or Mathematical Methods</td>
<td>4F or P</td>
<td>76.25 / 76.25</td>
<td>G, S</td>
<td>766501</td>
<td>11</td>
</tr>
<tr>
<td>Agricultural Science</td>
<td>English and General Mathematics or Mathematical Methods, Recommended Study: Agricultural Science or Biology</td>
<td>3F or P</td>
<td>72.30 / 68.00</td>
<td>G, S</td>
<td>762019</td>
<td>11</td>
</tr>
<tr>
<td>Biomedical Science / Science</td>
<td>English, Mathematical Methods, plus one of Biology, Chemistry or Physics</td>
<td>4F or P</td>
<td>80.45 / 78.45</td>
<td>S</td>
<td>732121</td>
<td>11</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics</td>
<td>3F or P</td>
<td>82.40 / 78.40</td>
<td>S</td>
<td>731001</td>
<td>32</td>
</tr>
<tr>
<td>Business Management / Science</td>
<td>English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics</td>
<td>4F or P</td>
<td>80.05 / 80.05</td>
<td>S</td>
<td>710501</td>
<td>11</td>
</tr>
<tr>
<td>Commerce / Science</td>
<td>English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics</td>
<td>4F or P</td>
<td>86.30 / 85.70</td>
<td>S</td>
<td>717101</td>
<td>11</td>
</tr>
<tr>
<td>Computer Science / Science</td>
<td>English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics. Specialist Mathematics is recommended*</td>
<td>4F or P</td>
<td>84.75 / 84.75</td>
<td>S</td>
<td>733601</td>
<td>11</td>
</tr>
<tr>
<td>Economics / Science</td>
<td>English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics</td>
<td>4F or P</td>
<td>86.70 / 86.70</td>
<td>S</td>
<td>714301</td>
<td>11</td>
</tr>
<tr>
<td>Engineering (Honours) / Biotechnology</td>
<td>English, Mathematical Methods, plus one of Chemistry or Physics. Specialist Mathematics is recommended*</td>
<td>5F or P</td>
<td>84.35 / 82.75</td>
<td>S</td>
<td>717501</td>
<td>11</td>
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<tr>
<td>Engineering (Honours) / Mathematics</td>
<td>English, Mathematical Methods, plus one of Chemistry or Physics. Specialist Mathematics is recommended*</td>
<td>5F or P</td>
<td>92.15 / 88.15</td>
<td>S</td>
<td>717901</td>
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<tr>
<td>Environmental Management (Honours)</td>
<td>English, Mathematical Methods, plus one of Chemistry or Physics. Specialist Mathematics is recommended*</td>
<td>5F or P</td>
<td>84.15 / 82.35</td>
<td>S</td>
<td>717701</td>
<td>11</td>
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<tr>
<td>Environmental Science</td>
<td>English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics</td>
<td>3F or P</td>
<td>80.15 / 80.15</td>
<td>S</td>
<td>738001</td>
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<tr>
<td>Information Technology / Science</td>
<td>English, Mathematical Methods, plus one of Biology, Chemistry, Earth and Environmental Science, or Physics</td>
<td>4F or P</td>
<td>84.35 / 84.55</td>
<td>S</td>
<td>733501</td>
<td>11</td>
</tr>
<tr>
<td>Mathematics</td>
<td>English and Mathematical Methods. Specialist Mathematics is recommended</td>
<td>3F or P</td>
<td>92.15 / 88.15</td>
<td>S</td>
<td>714401</td>
<td>35</td>
</tr>
<tr>
<td>Mathematics / Arts</td>
<td>English and Mathematical Methods. Specialist Mathematics is recommended</td>
<td>4F or P</td>
<td>92.65 / 89.15</td>
<td>S</td>
<td>714501</td>
<td>11</td>
</tr>
<tr>
<td>Mathematics / Business Management</td>
<td>English and Mathematical Methods. Specialist Mathematics is recommended</td>
<td>4F or P</td>
<td>95.65 / 91.65</td>
<td>S</td>
<td>714701</td>
<td>11</td>
</tr>
<tr>
<td>Mathematics / Commerce</td>
<td>English and Mathematical Methods. Specialist Mathematics is recommended</td>
<td>4F or P</td>
<td>92.55 / 92.55</td>
<td>S</td>
<td>714601</td>
<td>11</td>
</tr>
<tr>
<td>Mathematics / Computer Science</td>
<td>English and Mathematical Methods. Specialist Mathematics is recommended</td>
<td>4F or P</td>
<td>93.15 / 88.15</td>
<td>S</td>
<td>714421</td>
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</table>
Credit exemptions for IB students

<table>
<thead>
<tr>
<th>IB SUBJECT</th>
<th>MINIMUM GRADE REQUIRED</th>
<th>CREDIT OR EXEMPTIONS</th>
</tr>
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<tbody>
<tr>
<td>Biology (HL)</td>
<td>6</td>
<td>Specified credit for BIOL1020</td>
</tr>
<tr>
<td>Chemistry (HL)</td>
<td>6</td>
<td>Specified credit for CHEM1000 or CHEM1004</td>
</tr>
<tr>
<td>English (HL)</td>
<td>6</td>
<td>Specified credit for ENGL1000</td>
</tr>
<tr>
<td>Mathematics (SL)</td>
<td>4</td>
<td>Exemption from MATH2004</td>
</tr>
<tr>
<td>Mathematics (HL)</td>
<td>3</td>
<td>Exemption from MATH1040 and MATH1050</td>
</tr>
<tr>
<td>Physics (SL)</td>
<td>6</td>
<td>Exemption from PHYS1001</td>
</tr>
<tr>
<td>Physics (HL)</td>
<td>6</td>
<td>Specified credit for PHYS1001 and exemption from PHYS1002</td>
</tr>
</tbody>
</table>

Learn more about IB subject prerequisite equivalents at UQ

Fee Band
See table on page 41 for indicative fees.

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

Science
Applied Mathematics; Archaeological Science; Astrophysics; Biochemistry and Molecular Biology; Bioinformatics; Biomedical Science; Biophysics; Cell Biology; Chemical Biology; Chemistry; Coastal and Ocean Science; Computational 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; Science Communication; Statistics; Zoology

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

Science / Arts
80.00 / 28.75
English, Mathematical Methods plus one of Biology, Chemistry, Earth and Environmental Science, or Physics

Science / Education (Secondary)**
80.00 / 28.75
English, Mathematical Methods plus one of Biology, Chemistry, Earth and Environmental Science, or Physics. Specialist Mathematics (Units 3 and 4, C) if majoring in mathematics. Specialist Mathematics and Physics (Units 3 and 4, C) if majoring in physics.

Science / Journalism
80.00 / 28.75
English, Mathematical Methods plus one of Biology, Chemistry, Earth and Environmental Science, or Physics

Science / Laws (Honours)
9750 / 40.00
English, Mathematical Methods plus one of Biology, Chemistry, Earth and Environmental Science, or Physics

Veterinary Science (Honours)***
98.50 / 41.50
English, Chemistry, Mathematical Methods, plus one of Physics or Biology and Casper test***

Veterinary Technology
75.00 / 26.50
English and either General Mathematics or Mathematical Methods. Biology, Chemistry and/or Physics are recommended

Wildlife Science
73.00 / 25.75
English and either General Mathematics or Mathematical Methods. Biology, Chemistry and/or Physics are recommended

Science, Mathematics, Agriculture and Environment 2025
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 to move into management roles, UQ Skills has a range of nationally accredited and unaccredited programs to help you achieve your goals.

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

- Animal and veterinary care
- Agriculture and rural operations
- Business and entrepreneurship
- Health and first aid
- 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 with 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 pathways for possible further study. They also can count towards your Queensland Certificate of Education (QCE). Certificate III and IV programs, while not government funded for high school students, are offered at a low fee-for-service price. These certificate programs can give you the skills to jump right into employment.

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 the professional skills required to succeed in your chosen field.

If you already have a qualification, gain advanced technical skills and business-related knowledge with a Certificate IV in Entrepreneurship and New Business (BSB40320) or a Diploma in Procurement and Contracting (PSP50616).

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.

UQ Skills
+61 7 5460 1353
uqskills@uq.edu.au

Study and training after Year 10 linked to better employment prospects

Australian Jobs Report 2021
Global experiences

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 alongside your degree

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. UQ offers Queensland’s most comprehensive selection of languages, and you can choose to study up to 2 languages: Ancient Greek, Chinese, French, German, Indonesian, Japanese, Korean, Latin, Russian, Spanish, or Chinese Translation and Interpreting.

Adding language studies to your undergraduate degree opens up a world of new and exciting opportunities and may be one on the best moves for your future career.

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, and Singapore.

Scholarships, bursaries and grants available

Visit study.uq.edu.au/enhance-your-employability to discover how you can take your studies globetrotting.

“The best experience I’ve gained as a UQ student was when I went to study abroad in Singapore. I spent 5.5 months at the National University of Singapore (NUS) expanding my knowledge in Human/Urban Geography and delving into unconventional areas of my field such as Gender studies, service economy and social and cultural geographies. Exploring a new city-state, new areas in my discipline and meeting a range of like-minded international friends was a life changing experience and I’d highly recommend UQ students to consider pursuing a period of time studying abroad, whether it be short term or long term.”

Ishara Sahama
Bachelor of Science (Geographical Sciences) graduate
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.

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.

Work integrated learning and clinical experiences
Gain a competitive edge in the job market, build your interpersonal skills and professional networks.

Practicals
‘Hands-on’ classes allow you to apply the theories learnt in your courses.
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.

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 specialist fields from across science and mathematics.

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.
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.

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.

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

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

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.

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?

High school

Haven’t completed Mathematical Methods, Physics, Chemistry or Biology prerequisite course(s) for the BSc?

Year 1 at UQ

Bachelor of Environmental Management (Honours)

Complete the prerequisite courses that you require:
- MATH1040 – for Mathematical Methods
- PHYS1171 – for Physics
- CHEM1090 – for Chemistry
- BIOL1020, 1030 or 1040 – for Biology.

Achieve a GPA of 4.0 or higher in your first year.

Year 2 at UQ

Bachelor of Science

Receive up to one year of credit towards the BScience.

More information

Visit 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

Enroll 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 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:

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Key
- ■ Major 1
- ■ Major 2
- ■ Core courses
- ■ Electives
- ■ Level 1 pre-requisites for major (does not apply to all majors)

Save time

Graduate with 2 bachelor’s programs 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 offer multidisciplinary skillsets to their future employers.

<table>
<thead>
<tr>
<th>QUTAC Code</th>
<th>Duration (Years)</th>
<th>Minimum Selection Threshold 2024* ATAR / IBAS</th>
<th>Lowest ATAR to Receive an Offer 2024 Adjusted</th>
<th>Unadjusted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical Science / Science (BBiomedSc/BSc)</td>
<td>4</td>
<td>80.00 / 28.75</td>
<td>80.45</td>
<td>78.45</td>
</tr>
<tr>
<td>Business Management / Science (BBusMan/BSc)</td>
<td>4</td>
<td>80.00 / 28.75</td>
<td>80.05</td>
<td>80.05</td>
</tr>
<tr>
<td>Commerce / Science (BCom/BSc)</td>
<td>4</td>
<td>84.00 / 30.50</td>
<td>86.30</td>
<td>85.70</td>
</tr>
<tr>
<td>Computer Science / Science (BCompSc/BSc)</td>
<td>4</td>
<td>84.00 / 30.50</td>
<td>84.75</td>
<td>84.75</td>
</tr>
<tr>
<td>Economics / Science (BEcon/BSc)</td>
<td>5</td>
<td>84.00 / 30.50</td>
<td>86.70</td>
<td>86.70</td>
</tr>
<tr>
<td>Engineering (Hons) / Science (BE(Hons)/BSc)</td>
<td>5</td>
<td>84.00 / 30.50</td>
<td>84.15</td>
<td>82.35</td>
</tr>
<tr>
<td>Information Technology / Science (BInfTech/BSc)</td>
<td>5</td>
<td>84.00 / 30.50</td>
<td>84.55</td>
<td>84.55</td>
</tr>
<tr>
<td>Mathematics / Science (BMath/BSc)</td>
<td>5</td>
<td>92.00 / 35.25</td>
<td>92.35</td>
<td>90.35</td>
</tr>
<tr>
<td>Music (Hons) / Science (BMus(Hons)/BSc)**</td>
<td>5</td>
<td>80.00 / 28.75</td>
<td>89.50</td>
<td>89.50</td>
</tr>
<tr>
<td>Science / Arts (BSc/BA)</td>
<td>4</td>
<td>80.00 / 28.75</td>
<td>80.85</td>
<td>79.85</td>
</tr>
<tr>
<td>Science / Education (Secondary) (BSc/BEd(Sec))</td>
<td>5</td>
<td>80.00 / 28.75</td>
<td>81.90</td>
<td>80.65</td>
</tr>
<tr>
<td>Science / Journalism (BSc/J)</td>
<td>5</td>
<td>80.00 / 28.75</td>
<td>82.55</td>
<td>77.55</td>
</tr>
<tr>
<td>Science / Laws (Hons) (BSc/LLB(Hons))</td>
<td>5</td>
<td>97.50 / 40.00</td>
<td>97.65</td>
<td>93.10</td>
</tr>
</tbody>
</table>

< Minimum (adjusted) selection threshold 2024 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, 2024. 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.

m Selection based on audition, interview and academic results.
# Bachelor of Science

## 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.

**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.

### Example study plans

#### 2 majors

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

#### 1 major + 2 minors

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Key

- Major 1
- Major 2
- Minor 1
- Minor 2
- Core courses
- Electives
- Level 1 pre-requisites for major (does not apply to all majors)

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Find more detailed information at [planner.science.uq.edu.au](http://planner.science.uq.edu.au)
Applied Mathematics

Use the language of Mathematics and numerical simulation to describe reality, find optimal strategies and make predictions.

Study plan highlights
- 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 for graduates 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.

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.

“Studying a Bachelor of Science at UQ pushed me to extend myself in ways I had never previously been extended, develop my confidence in tackling the unfamiliar and empowered me to approach new concepts with curiosity so that I feel equipped to take advantage of opportunities to succeed in my career. Even though I did not study much computer science, the skills I gained studying Mathematics and throughout my Science degree were translatable.”

Emily Jones
BSc (Mathematics) graduate
Junior Software Development Engineer at SilverRail Technologies
ASTRONOMICAL PHYSICS

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 employment in 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.

“As a postdoctoral research Fellow the thing I most enjoy about my job is that there is always something new to discover. UQ has one of the smaller astrophysics groups in the country, but it is very well-regarded. During my Honours and PhD studies I was given the opportunity to work with other researchers in my field, so by the time I was ready to start job hunting I had already formed strong relationships with many of my potential employers. Gaining my PhD from UQ enabled me to develop as an independent researcher and become confident in writing my own proposals, planning and conducting observations, presenting my research findings at international conferences and using my initiative.”

Sarah Sweet
BSc (Mathematics) / BBus (Management)
Bachelor of Science (Honours)
(Astrophysics)
Graduate Certificate Research Commercialisation
PhD (Astrophysics)
MAJOR/MINOR

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.

EXTENDED MAJOR/MAJOR

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.
• 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.

“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) graduate, PhD, Bioinformatics
Post-doctoral scientist, Victor Chang Cardiac Research Institute
BACHELOR OF SCIENCE (BSc)
EXTENDED MAJORS | MAJORS | MINORS

MINOR

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).

EXTENDED MAJOR/MAJOR/MINOR

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.

MINOR

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.
• 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
• 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.
**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.

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**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**

- Aquatic Environments
- Coastal Processes and Management
- Marine Biogeochemistry
- Marine and Coastal Environmental Protection
- Physical-biological Oceanography.

**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

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“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) graduate

Asia Pacific Market Development Manager, Lubrizol Corporation
BACHELOR OF SCIENCE (BSc)
EXTENDED MAJORS | MAJORS | MINORS

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, and computer science.

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.

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.

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

Developmental 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.

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
- Environmental Geochemistry
- Field Geology: Mapping in the Outback (image above)
- Magmas and Deformed Rocks
- Marine Geoscience and Tectonics
- Sedimentary Basins and Geophysical Techniques.

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.
Work in sectors such as:
- environment and resource management
- national parks and wildlife conservation
- environmental consulting
- agriculture
- ecotourism.

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

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 and Environmental Management
- Conservation
- Functional Ecology
- Landscape Ecology
- 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.
Work in sectors such as:
- environment and resource management
- national parks and wildlife conservation
- environmental consulting
- agriculture
- ecotourism.
“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) graduate
Regional Policy Officer, Food Industry Asia

MINOR

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.

MAJOR

Food 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.
MAJOR

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.

EXTENDED MAJOR/MAJOR/MINOR

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

- Genomics and Evolution of Complex Traits
- Human Molecular Genetics in Health and Disease
- Laboratory Skills in Genetic Research
- Model Organism Genetics
- Molecular Systems Biology.

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.

“Using my expertise in Food Science and Nutrition, I am contributing to enhancing the quality of life and the wellbeing of Singaporean people. Working with food and beverage operators, I educate them on nutrition and support them to create healthier recipes and increase the range of healthy food or beverage options available on their menus or in their product range.”

Hui Min Lim
BSc (Food Science and Nutrition) graduate
Nutritionist, Food and Nutrition Specialists Pty Ltd, Singapore
“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) graduate  
Project Officer, Queensland Government

EXTENDED MAJOR/MAJOR

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.

MINOR

Geographical 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.
MINOR

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.

MINOR

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.

“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) graduate
Medical Researcher, Veteran Mental Health Initiative, Gallipoli Medical Research Foundation
BACHELOR OF SCIENCE (BSc)
EXTENDED MAJORS | MAJORS | MINORS

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.

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 edge of the 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 in:
• Marine park management
• Fisheries and aquaculture
• Marine bioresources
• Marine biotechnology
• Marine ecotourism
• Sea Country management
• Climate change mitigation


“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) graduate
Fisheries Resource Officer, Department of Agriculture and Fisheries
EXTENDED MAJOR/MAJOR/MINOR

Mathematics
Use mathematics to create innovations that will shape the future.

Study plan highlights
• Learn how to develop new ideas and proofs, and formulate 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.

MAJOR/MINOR

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
• health
• 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
EXTENDED MAJOR

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.

MINOR

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
• 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.

MINOR

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.

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

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**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**
- Advanced Plant Biology and Biotechnology
- Fungal Biology
- Plant Biology
- Plant Diseases
- Plant Identification and Vegetation Classification.

**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.

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*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 biorobotics lab at the Queensland Brain Institute.”

Ann Bui
Bachelor of Science (Honours) (Physics), PhD (Physics) graduate
Deep Learning Lead, Shine Lawyers
BACHELOR OF SCIENCE (BSc)
EXTENDED MAJORS | MAJORS | MINORS

EXTENDED MAJOR/MAJOR/MINOR

Psychology
Study how people behave, think and feel.
Study plan highlights
• Learn to investigate and assess different methods of 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 employment in:
• human resources
• mental health
• counselling
• corrective services
• education and training.

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.

“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) graduate
Head of Research, Just Media Design

*Australian Government Labour market insights 2021 to 2026.
MINOR

Science Communication

Interpret rapid advances in science and engage general and non-expert audiences with impact.

Study plan highlights
• Practise strategies that educate and influence effective decision making by the public.
• Build a communication toolkit using critical thinking, reading, verbal, and writing skills.
• Develop, deliver, and evaluate your own science communication strategy with a local community audience.
• Use your elective courses to focus on strategic communication or journalism.
• Practise your collaboration and interpersonal communication with science and non-science students.

Sample courses
• Journalistic Investigation
• Journalistic Narratives
• Media Strategies
• Public Relations Writing
• Science Engagement in the Community
• Why Trust Science?

Careers
Science communicators work in research institutions, universities, government, the private sector, the media, education, cultural institutions, medical charities and the arts. Employment for science communicators is continuing to grow as organisations prioritise communicating their research to raise awareness, public support and funding. They may be employed in roles such as:
• content creator
• editorial assistant
• education officer
• information manager
• outreach coordinator
• science policy advisor
• science presenter
• technical writer.

BSC MAJOR/MINOR

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.

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, ecophysicists, 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.
Work in sectors such as:
• environmental consulting
• ecotourism
• national parks and wildlife conservation
• natural resource management.

* Australian Government Labour market insights 2021 to 2026.
** Source: Jobs and Skills Australia Employment Projections to 2026.
Bachelor of Agribusiness

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

Why Agribusiness at UQ?
The agribusiness industry is a hub of innovation, creating new and exciting value-added food and fibre products. Agribusiness covers various business activities throughout the food supply chains from farming to the retail marketing of food and fibres to consumers. It also oversees the management of critical inputs such as agricultural chemicals, machinery, human resources, and financial and advisory services for businesses in the supply chain. Study Agribusiness at UQ and you’ll prepare yourself for a career in the thriving agricultural industry. You’ll study a broad range of topics in an agricultural context to discover the commercial world behind agriculture, its pursuit of sustainability and the value chain that links producers and consumers. Develop strategies to increase the value of supply chains by applying human resources, marketing and financial and advisory services. Study Australian and overseas businesses creating innovative, value-added food and fibre products. You will access UQ’s world-class expertise and facilities at our St Lucia and Gatton campuses, 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 along the agribusiness value chain to link producers with consumers. Build your knowledge of agricultural value chains and the e-technologies driving efficiencies through core, elective and capstone courses.

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 Sustainability. 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, industry projects, 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 a wide range of industry challenges from carbon-neutral agriculture to sustainable marketing. 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.

Careers
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
- supply chain management
- international aid and development agencies
- agribusiness consultancy
- agro-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.

Find a career in Australian agribusiness, with the value of farm production forecast to reach a record $78 billion in 2023–24
Australian Bureau of Agricultural and Resource Economics
Bachelor of Agricultural Science

Agricultural science is an in-demand field with 6 jobs per graduate on offer. Explore opportunities in food and animal production, robotic and farming automation, and sustainable land management practices.

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<td>Agribusiness</td>
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</table>

Why study Agricultural Science at UQ?

With 50% of agricultural jobs located in major cities, a career in agriculture offers you highly paid roles in a global growth industry. At UQ you will access world-leading academics with strong industry connections and industry focused research. Learn to apply and integrate current and emerging scientific, technological, managerial, economic and social principles to feed the world sustainably and protect the environment. Devise and evaluate practical, technology driven strategies to ensure productive livestock and cropping outcomes for small-, medium- and large-scale farming operations worldwide. Experience some of the best animal and veterinary facilities in the southern hemisphere plus research greenhouses, a plant nursery, a commercial dairy and more than 1,000 hectares of farmland during your studies.

Enhance your technical skills with an optional 120-hour practical industry placement. Build your knowledge of agricultural innovation and its application. 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.

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 practical skills and Industry ready knowledge and customise your study to suit your interest in one of 3 majors:

- **Agronomy**
  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 and management.

- **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

With your specialist science, analytical and technology skills, you will be able to work in local, national and international organisations or in government as an animal scientist, agronomist, horticulturalist, geneticist, soil scientist or agricultural consultant. You may also find work as an extension or biosecurity inspection officer, or as an 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

- **Agronomy**
  + Crop Physiology
  + Plant and Environmental Health
  + Plant Physiology
  + Plant Production Principles and Technologies

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

- **Horticulture**
  + Horticultural Science
  + Plant Production Principles and Technologies
  + Production Horticulture
  + Soil Plant Relationships.

More information

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

Biotechnology is a creative, entrepreneurial field, where scientists design innovative products and technologies to pioneer new frontiers in health, agriculture, science, engineering and in rapidly emerging disciplines.

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
• Science Communication.

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

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
+ Medical Biotechnology
+ Molecular and Microbial Biotechnology
+ Plant Biology and Biotechnology
+ Principles of Food Preservation
+ Principles of Pharmacology
+ Risk in Process Industries
+ Science Industry Placement
+ Synthetic Biology and Industrial Biotechnology
+ Technology and Innovation Management.
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.

More information

Visit study.uq.edu.au or scan the QR code.
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.

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 sub-tropical 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
+ 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
+ Macroeconomy & Biogeography
+ Planet Earth: The Big Picture
+ Pollution Science
+ Spatial Analysis and Modelling
+ The Soil Environment.

More information

Visit study.uq.edu.au or scan the QR code
Bachelor of Mathematics

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

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 a broad selection of 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, science communication 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.

What you will learn
- **Mathematics**
  - **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.
  - **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.
- **Minors:** Bioinformatics, Computational Science, Computer Science, Physics, Science Communication, Statistics.

Majors

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<tr>
<td><strong>Applied Mathematics</strong></td>
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<td><strong>Mathematical Physics</strong></td>
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<tr>
<td><strong>Pure Mathematics</strong></td>
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<tr>
<td><strong>Statistics</strong></td>
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</table>

Placements and practical experience

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 diverse roles such as data scientist, bioinformatics or software engineer, research engineering lead, quantitative analyst, materials scientist, cryptographer, risk modeller or research mathematician.
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.

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.

situational judgement test

The Casper situational judgement test recognises attributes other than academic performance. For more information, see 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

More information

Visit study.uq.edu.au or scan the QR code
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.

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See ‘Program table explained’ on page 3.
> Minimum (adjusted) selection threshold 2024 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, 2024. 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 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.

Note: Third year of the program commences in Semester 1 only and must be completed full-time.

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

Gain additional skills by concurrently enrolling in the Certificate IV in Veterinary Nursing (ACM40418) or Farm Ready program through UQ Skills (details available uqskills.uq.edu.au/programs). RTO: #1511.

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.

More information

Visit study.uq.edu.au or scan the QR code

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

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

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
Gain additional skills by concurrently enrolling in the Certificate IV in Veterinary Nursing (ACM40418) or the Farm Ready program with UQ Skills (RTO: #515). Details available at uqskills.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
Biological Science
Elements of Ecology
Human Wildlife Interactions
Management and Husbandry of Zoo Animals
Wildlife Population Management
Wildlife Technologies.

Gain experience in UQ’s wildlife research facilities and access some of the best animal and veterinary facilities in the southern hemisphere.
Our regional 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.

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.

Library
The library is your gateway and navigator into the world of academic information. Our staff and resources are here to help you find the answers to your questions. With safe and welcome learning spaces, a world-class collection, and approachable staff we can connect you with everything you need to succeed in your studies. Visit library.uq.edu.au to see how our libraries can support your study.

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

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

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 Gatton Student Central.

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 ughealthcare.org.au/gatton for a full list of our health services.

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.

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. A number of 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 3 playing fields.
Visit uqsport.com.au/gatton to see how you can get active.

UQ Herston
UQ St Lucia
UQ Dutton Park
Brisbane

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

Take a virtual tour of Gatton campus
Student lifestyle

Life at UQ can be exhilarating one moment, then quiet and calm the next. Your life at UQ can be as busy or as still as you make it. One thing is for certain, though: there are plenty of ways to make it about more than just study.

Join clubs and societies

UQ Union has more than 220 clubs and societies to cater for everyone, from fans of street dance to robotic experimentalists. Find your crew, pursue your hobbies or try something new.


Attend festivals

UQ’s campuses hold festivals throughout the year to celebrate the changing seasons and major cultural events. Join the liveliness of Diwali celebrations, and get amongst events such as NAIDOC Week, Moon Festival and Cultural Fiesta.

Experience live music

From indie to orchestral, music can be a big part of your time at UQ. Soak up some live entertainment at the REDROOM at St Lucia, or attend an all-ages concert organised by UQ Union throughout the year. From touring acts to local musicians, student bands and classical concerts, there’s something to suit everyone’s musical tastes. You can also join UQ music ensembles.

Immerse yourself in art, history and theatre

UQ has 5 museums with a large and fascinating collection of art and artefacts, and rotating exhibitions. Delve into history, interact with installations and support student artists. UQ also hosts live theatre performances during the year, where you can catch a student play or other professional productions as part of various festivals.

Connect over food

Whether it’s meeting friends for a coffee, heading to the bar for a snack and trivia, or exchanging dishes that remind you of home, there are plenty of places on campus to connect with other students over a shared love of food. Join other green thumbs in the community garden, participate in a baking competition or take a cooking class.

Find spaces to chill

UQ has plenty of beautiful indoor and outdoor spaces designed for relaxing with friends. Enjoy a picnic by the picturesque UQ Lakes, find a quiet nook in one of the many libraries, or grab your bike for a morning ride around campus.

Travel options to UQ campuses

<table>
<thead>
<tr>
<th>Campus</th>
<th>Distance from CBD</th>
<th>Direct bus routes</th>
<th>Train stations within 4km</th>
<th>Minutes between each ferry</th>
</tr>
</thead>
<tbody>
<tr>
<td>UQ St Lucia</td>
<td>7km</td>
<td>10+</td>
<td>5+</td>
<td>15</td>
</tr>
<tr>
<td>UQ Gatton</td>
<td>5km</td>
<td>4+ free inter-campus buses daily</td>
<td>Rail–bus service runs between Brisbane and Gatton</td>
<td></td>
</tr>
<tr>
<td>UQ Herston</td>
<td>5km</td>
<td>2 mins to Inner Northern busway from the CBD</td>
<td>3+ train stations within 2km</td>
<td></td>
</tr>
<tr>
<td>UQ Dutton Park</td>
<td>5km</td>
<td>20 mins to CBD</td>
<td>2 train stations within 3km</td>
<td>14 mins to St Lucia terminal + 15 mins walk</td>
</tr>
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St Lucia sporting facilities include 30 sporting spaces, 2 heated pools, an Olympic-standard athletics track and a 3-level weights and cardio gym.
Plan your finances

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

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.

Fees for students in a Commonwealth supported place 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 at study.uq.edu.au.

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.

Some domestic students will pay full tuition fees. Refer to study.uq.edu.au/fee-overview for more information. 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).

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 $351 for 2024 – according to whether you’re an internal or external student. The fee is indexed annually.

Keeping your costs down

- Investigate the financial support and fee payment options offered by Centrelink.
- Explore the scholarships on offer (see page 37).
- Enjoy UQ Union’s free and low-cost entertainment and activities, such as Morning Marmalade and Kampus Kitchen.
- Get concessions and student discounts at participating retailers and institutions with your UQ student card.

Fees

Fees for 2025 are expected to be available from November 2024.

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

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.

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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.

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 study.uq.edu.au/guaranteed-accommodation

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. Alternatively, there are private rental accommodation websites, and you can rent directly from real estate agents.

Visit accommodation.uq.edu.au to discover your new home

Scholarships, bursaries and grants available
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 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

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

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 guides, to help you.

Contact us
study.uq.edu.au/contact

Program guides
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

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

“I chose UQ for its world-wide reputation in teaching and academic research. I knew it was a gateway to many career possibilities and networking opportunities where I can develop my skills and build connections. I was also drawn to the beautiful campus and the blooming jacaranda on my first visit, hence I decided it’s the place that I want to study and live at. Being a science leader has given me immense benefits as I’ve developed leadership skills, communication strategies and task management abilities. I started from applying to the LaMPS program, completed all the modules and attended the final conference. I passed the group interview on Day 2 of the conference and began to assist with Orientation Day in the coming year. Since then I’ve volunteered for many science events, and I plan to keep volunteering as much as possible for the rest of my degree.”

Jinyang Tang
Bachelor of Advanced Science (Honours) student

UQ has more than 20,000 international students from 134 countries
Applying to UQ

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

01 Choose

Choose your program
- Read your program options (see pages 9–38)
- Visit study.uq.edu.au

TIP
Check that you meet eligibility, merit and other entry requirements and meet any specific program deadlines.
If you don’t meet a program’s entry requirements, several pathway options are available. study.uq.edu.au/pathway-options

02 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
- Visit qtac.edu.au

03 Accept

Accept your offer
- Log in to the QTAC website
- Accept your offer
- Activate your UQ student account
- Go to my.uq.edu.au/starting-at-uq and follow the instructions
- Get excited about starting at UQ!

04 Enrol

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

05 Prepare

Prepare for Week 1
- Complete the steps at 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

06 Let’s go!

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 TikTok (@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.
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

**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

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

**Engineering, Design, Computing, Architecture and Planning**
- Architectural Design
- Computer Science
- Design
- Engineering (Honours)
- Information Technology
- Regional and Town Planning

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

**Science, Mathematics, Agriculture and Environment**
- Advanced Science (Honours)
- Agribusiness
- Agricultural Science
- Biotechnology
- Environmental Management (Honours)
- Environmental Science
- Mathematics
- Science
- Veterinary Science (Honours)
- Veterinary Technology
- Wildlife Science

**Central guides**
- Domestic Undergraduate
- International Undergraduate and Postgraduate (international students can visit uq.edu.au/study-guides to access the latest international student guides)
Questions?

Programs
Faculty of Science – St Lucia campus
07 3365 1888 | enquiry@science.uq.edu.au
science.uq.edu.au

Faculty of Science – Gatton campus
07 5460 1276 | enquiry@science.uq.edu.au
science.uq.edu.au

Living and studying at UQ
Future Students Contact Centre
07 3346 9872
study.uq.edu.au/enquiry

Entry requirements and admission to UQ
UQ Admissions
07 3365 2203 | admissions@uq.edu.au
study.uq.edu.au/admissions

Key dates
Tertiary Studies Expo (TSXPO)
RNA Showgrounds
Saturday and Sunday 13–14 July 2024

UQ Open Day 2024
St Lucia campus Sunday 4 August 2024
Gatton campus Sunday 18 August 2024

Semester 1, 2025
Classes commence
Monday 17 February 2025

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