Science, Mathematics, Agriculture and Environment

2020 Undergraduate Programs

Advanced Science
Agribusiness
Agricultural Science
Biomedical Science
Biotechnology
Environmental Management
Environmental Science
Equine Science
Mathematics
Occupational Health and Safety Science
Science
Sustainable Agriculture
Veterinary Science
Veterinary Technology
Wildlife Science
3 Campuses
6 Faculties

53,600+ students from more than 135 countries

#1 in Queensland for graduate employability
QS Graduate Employability Rankings 2019
More national teaching awards than any other Australian university

State-of-the-art facilities
Largest choice of science disciplines
UQ Science offers you a huge diversity of disciplines, encompassing pathways to traditional and emerging cross-disciplinary science careers, and incorporating broader options for careers in areas such as agriculture, biomedical science, veterinary science, the environment and food technology, to name a few.
You will find employment among the largest employers of scientists, technologists, business managers, consultants and other professionals, both in Australia and overseas.

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

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

Practical experience
You will benefit from interacting with industry representatives, undertaking professional placements or internships, participating in the Summer Research Scholarships program with award-winning UQ researchers, and integrating industry-based training and real-life projects into your theoretical studies.
Your program may incorporate a year of research-intensive study called ‘honours’, or you may choose to complete honours as an additional component to gain valuable project management and research skills.
Your practical experience will open your world to a diverse range of careers that will allow you to work on issues such as climate change, biosecurity, feeding the global population, sustainable energy, disease eradication and the management of diminishing natural resources.
You may even choose to study overseas at one of UQ’s 140 international partner organisations to add a global perspective to your employment options.
Embark on a journey with us and discover how UQ is uniquely placed to make a difference to your future.
Why study science at UQ?  
Apply for a scholarship  
See the world  

UNDERGRADUATE DEGREES 
Quick reference guide 
Program table explained
Bachelor of:  
Advanced Science (Honours)  
Agribusiness  
Agricultural Science (Honours)  
Biomedical Science  
Biotechnology (Honours)  
Environmental Management (Honours)  
Environmental Science (Honours)  
Equine Science  
Mathematics  
Occupational Health and Safety Science (Honours)  
Science  
Science dual programs  
Bachelor of Science majors  
Animal and Veterinary Bioscience  
Archaeological Science  
Biochemistry and Molecular Biology  
Bioinformatics  
Biomedical Science  
Biophysics  
Chemical Sciences  
Chemistry  
Computational Science  
Computer Science  
Ecology  
Food Science and Nutrition  
Food Science and Technology  
Genetics  
Geographical Sciences  
Geological Sciences  
Marine Biology  
Marine Science  
Mathematics  
Microbiology  
Physics  
Plant Science  
Psychology  
Public Health  
Statistics  
Zoology  
Sustainable Agriculture  
Veterinary Science (Honours)  
Veterinary Technology  
Wildlife Science  

UQ Gatton  
Student lifestyle  
Plan your finances  
A home away from home  
Are you an international student?  
Applying to UQ  
Got questions?  
Study options  

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Marine Science  29  
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Microbiology  30  
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#1 in Agriculture in Australia*  
#1 in Environmental Sciences in Australia**

#4 in Agriculture worldwide*  
#12 in Environmental Sciences worldwide**

* 2018 Performance Ranking of Scientific Papers for World Universities  
** QS World University Rankings by Subject, 2018

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

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

Academic
UQ’s Academic Scholarship program is designed to reward the achievements of outstanding school leavers and to identify, support and develop tomorrow’s leaders. If you are a high-achieving student and are completing Year 12 in 2019, or you completed Year 12 in 2018 and are on a gap year, apply for UQ’s Academic Scholarship Program. Up to 150 scholarships, ranging in value from $6000 to $60,000, are offered each year to students with outstanding academic achievements, or a combination of academic achievements, leadership and/or community service achievements.

scholarships.uq.edu.au

Sporting
If you excel in both your chosen sport and academic studies, you may be eligible for a UQ Sporting Scholarship. Three main scholarships are offered in partnership with UQ Sport.

UQ Sports Achievement Scholarship
Awarded to outstanding new and continuing students who have demonstrated exceptional ability in their chosen sport.

Award value: up to $8000 for one year.

The Clem Jones Sporting Scholarship
Awarded to students with academic ability, who have the potential to perform at a high level in their chosen sport. Preference will be given to applicants with demonstrated financial need.

Award value: up to $18,000 over three years.

UQ Swimming Scholarship
Established in 2017, this scholarship supports outstanding new students who have demonstrated exceptional ability in swimming, and represent the UQ Swim Club.

Award value: up to $4500 for one year, plus high-performance coaching.

Elite athlete support
UQ is endorsed by the Australian Sports Commission as an Elite Athlete Friendly University (EAFU). Dedicated UQ Sport staff, in partnership with UQ, provide academic liaison support to negotiate flexible options for enrolment, assessment and course-related needs.

usport.com.au/elite-athletes/student-support/scholarships

Equity
UQ supports equitable access to education. We offer many scholarships for students who might not otherwise be able to attend university.

UQ Link Scholarships
Awarded to applicants who have experienced educational disadvantage due to financial hardship.

Award value: up to $9000 over three years. The Aspire Scholarship Schemes provide additional support for UQ Link recipients.

Indigenous Commonwealth Scholarships
Financial support is available to Indigenous students to help with the costs of going to university.

scholarships.uq.edu.au

Centrelink Student Income Support
Financial assistance is available to students who receive student income support payments through Centrelink (Youth Allowance, ABSTUDY, Austudy).

Award value: variable and determined by Centrelink.

Other scholarships
UQ has a number of other scholarships for both undergraduate and postgraduate students that provide fee relief or financial assistance, which you can apply for even after you have started at UQ.

Keep an eye out for upcoming scholarships related to your study area. There are also scholarships to help with studying abroad, assistance for regional and rural students, LGBTQI bursaries, and career-specific scholarships.

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Create Change Regional Australia Scholarship
The Create Change Regional Australia Scholarship is a new scholarship designed to support applicants from Australian rural and regional areas who are interested in studying at UQ.

scholarships.uq.edu.au

Get in early
Scholarship applications close at different times throughout 2019 - plan your applications and apply early so you don’t miss out!

scholarships.uq.edu.au

200+ to choose from
UQ’s generous industry partners and private donors contribute to bring you a range of scholarships with varied criteria.

Apply for a scholarship

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See the world

See the potential of the world. Gain the knowledge to make it better.

**How to study overseas**
Studying overseas is an ideal way to enhance your employability while also enjoying the experience of a lifetime. As a UQ student, you can access a range of global experiences, from exchange and short-term study, to international internships, volunteering and opportunities to represent UQ on the global stage. Our UQ Abroad team can help guide you through the application process and get you set for international success. [employability.uq.edu.au/global-experiences](http://employability.uq.edu.au/global-experiences)

**Student exchange program**
Study overseas in your choice of 38 countries for up to one year, while still gaining credit towards your UQ degree. While you’re on exchange, tuition fees at the host university are waived and you’ll continue to pay fees and be enrolled at UQ. You can even apply for exchange scholarships and may be eligible for a government OS-HELP loan to assist with airfares, accommodation, health insurance and living costs.

**Universitas 21 student experiences**
UQ is a member of Universitas 21 (U21), an international network of leading research-intensive universities that work together to enhance the student experience across the world. Apply to participate in a range of U21 student experiences such as short-term Summer or Winter Schools, global competitions, and student exchange, and build your global network of like-minded peers. [employability.uq.edu.au/u21](http://employability.uq.edu.au/u21)

**Short-term experiences**
Want to study or live overseas for only a short time? Short-term global experiences are a great way to discover more of the world, develop valuable contacts and make the most of your semester breaks. Many experiences at approved host universities in Asia, Europe, the USA or Latin America are eligible for credit towards your UQ program.

Start planning now!
If you’re interested in studying overseas, UQ Abroad offers information sessions throughout the year, or you can speak to an adviser. [employability.uq.edu.au/global-experiences](http://employability.uq.edu.au/global-experiences)

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$1.2m+
student funding
support for overseas opportunities

38
exchange countries

200
exchange partners

75+
short-term programs

1000+
students participating in global experiences
<table>
<thead>
<tr>
<th>Bachelor Degree in (majors listed unless otherwise specified)</th>
<th>Minimum Selection Threshold 2019 OP / RANK / IB / ATAR</th>
<th>Prerequisites</th>
<th>Duration (Years)</th>
<th>Lowest OP / RANK to receive an offer 2019</th>
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</thead>
<tbody>
<tr>
<td>Advanced Science (Honours) - Biology; Biomedical Science; Chemistry; Geographical Sciences; Geological Sciences; Mathematics; Physics</td>
<td>3 / 96 / 38 / 96.00</td>
<td>English, Mathematics B, plus one subject from Chemistry or Physics, and one subject from Agricultural Science, Biology, Earth Science or Mathematics C</td>
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<td>11 / 77 / 27 / 76.50</td>
<td>English and Mathematics A or B</td>
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<td>11 / 77 12 / 75 G, S</td>
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<td>Agricultural Science (Honours) - Animal Science; Plant Science</td>
<td>9 / 82 / 29 / 81.85</td>
<td>English, plus one of Chemistry or Mathematics B</td>
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<td>7 / 87 / 31 / 86.95</td>
<td>English, Mathematics B, plus one of Chemistry or Physics</td>
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<td>Economics / Science</td>
<td>7 / 87 / 31 / 86.95</td>
<td>English, Mathematics B, plus one of Chemistry or Physics</td>
<td>4.5F or P</td>
<td>6 / 89 7 / 87 S</td>
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<td>Engineering (Honours) / Biotechnology (Honours)</td>
<td>8* / 86* / 31* / 85.95*</td>
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<td>4 / 94 / 5 / 92</td>
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<td>4 / 94 5 / 92</td>
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<td>10 / 79 / 28 / 78.70</td>
<td>English, Mathematics B plus one of Chemistry or Physics</td>
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<td>6 / 89 6 / 89</td>
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<td>4F or P</td>
<td>9 / 82 9 / 82</td>
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<td>Science (Gatton) - Animal and Veterinary Bioscience</td>
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<td>10 / 79 10 / 79 G</td>
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<td>Science - Archaeological Science; Biochemistry and Molecular Biology; Biomimetics; Biomedical Science; Biophysics; Chemical Sciences; Chemistry; Computational Science; Computer Science; Ecology; Food Science and Nutrition; Food Science and Food Technology; Genetics; Geographical Sciences; Geological Sciences; Marine Biology; Marine Science; Mathematics; Microbiology; Physics; Plant Science; Psychology; Public Health; Statistics; Zoology</td>
<td>10 / 79 / 28 / 78.70</td>
<td>English, Mathematics B plus one of Chemistry or Physics</td>
<td>3F or P</td>
<td>10 / 79 13 / 74 S, H</td>
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<td>5F or P</td>
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<tr>
<td>Sustainable Agriculture - Agronomy; Horticulture; Livestock and Poultry Science</td>
<td>12 / 75 / 26 / 74.20</td>
<td>English and either Mathematics A or B</td>
<td>3F or P</td>
<td>12 / 75 12 / 75 G</td>
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<td>Veterinary Science (Honours)**</td>
<td>1* / 99* / 42* / 99.00*</td>
<td>English, Mathematics, Mathematics B plus one of Physics or Biology</td>
<td>5F</td>
<td>1 / 99 1 / 99 G</td>
<td>736002</td>
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<td>Wildlife Science</td>
<td>12 / 75 / 26 / 74.20</td>
<td>English and either Mathematics A or B</td>
<td>3F or P</td>
<td>12 / 75 14 / 70 G</td>
<td>787309</td>
<td>35</td>
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</table>

* Minimum (adjusted) selection threshold 2019 is the minimum score that was considered for an offer of a place to all applicants.
* Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2019.
* QTAC Code CSP = Commonwealth-supported place.
* Not all applicants on this OP/Rank gained entry; finer discrimination within the OP/Rank was used.
* 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.
** OP Guarantee does not apply to these programs.
*** UQ has introduced a Situational Judgement Test (SJT) for 2019. It recognises attributes other than academic performance. future-students.uq.edu.au
**** Selection based on audition, interview and academic results.

Prerequisites:

<table>
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<th>Before 2019</th>
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<td>Mathematics A</td>
<td>General Mathematics</td>
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<tr>
<td>Mathematics B</td>
<td>Mathematical Methods</td>
</tr>
<tr>
<td>Mathematics C</td>
<td>Specialist Mathematics</td>
</tr>
<tr>
<td>Earth Science</td>
<td>Earth and Environmental Science</td>
</tr>
</tbody>
</table>
**Program table explained**

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

**CAMPUS**
One of three UQ teaching sites where the majority of lectures are held.

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

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

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

### QTAC CODE
A unique code number assigned by QTAC to each individual undergraduate university program. You will need to use this number on your QTAC application.

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2019 OP / RANK / IB / ATAR</th>
<th>LOWEST OP / RANK TO RECEIVE AN OFFER 2019</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>DUAL PROGRAM AVAILABLE</th>
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<tr>
<td>766001</td>
<td>2007</td>
<td>11 / 77 / 27 / 76.50</td>
<td>11 / 77</td>
<td>5 years full-time (or part-time equivalent)</td>
<td>1</td>
<td>Gatton St Lucia</td>
<td>N/A</td>
<td>Equine Science, Sustainable Agriculture, Veterinary Technology, Wildlife Science</td>
</tr>
</tbody>
</table>

### UQ CODE
A unique identifying number assigned by the University to a program. Visit future-students.uq.edu.au/ study and type the UQ code into the search box to find out more details about the programs you are interested in.

### MINIMUM SELECTION THRESHOLD 2019 OP / RANK / IB / ATAR
The minimum (adjusted) selection threshold is the minimum score that was considered for an offer of a place to all applicants.

- **OP – Overall Position.** A statewide order of ranking students from 1 to 25 (with 1 being the highest) based on achievement in QCAA subjects studied for the Queensland Certificate of Education.
- **Rank (also selection rank).** Selection rank ranging from 1 to 99 (with 99 being the highest) allocated to university applicants who are not current Year 12 students in Queensland (OP eligible). Rank is usually determined by academic results in the highest level of study completed.
- **IB – International Baccalaureate points.**
- **ATAR – The Australian Tertiary Admission Rank (ATAR) is the standard measure of overall school achievement used in all Australian states and territories (with the exception of Queensland). It is a rank indicating a student’s position overall relative to other students. The ATAR is expressed on a 2000-point scale from 99.95 (highest) down to 0. In increments of 0.05. For 2021 admission, the ATAR will replace the Overall Position (OP) as the standard pathway to tertiary study for Queensland Year 12s.**

### ADJUSTMENT FACTORS
Previously referred to as ‘bonus points’, these are a numerical value added to or used in combination with an OP or selection rank. Common adjustment factors may include subject adjustments, enrichment studies, or educational disadvantage.

- **Adjusted**
- **Unadjusted**

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

- **Full time.** The standard study load is eight units per semester. Full-time study is 75 per cent or more of the standard study load (i.e. six units per semester for most programs).
- **Part time.** Part-time study load is less than 75 per cent of the standard study load (i.e. less than six units per semester for most programs).
Challenge and develop your critical thinking and analytical skills in this elite four-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) will challenge you and develop your deep interest in science to create the foundation for a high-achieving career in scientific research and industry.

What you will study
In first year, you’ll participate in weekly interdisciplinary seminars and build networks with other high achieving students and research scientists. In second and third years, you’ll develop your quantitative, computational, practical and problem-solving skills through group research projects in preparation for a full-year independent research project in your final year.

Majors
Choose to specialise in:

- **Biology**
  Study life processes and the structure, function, growth, evolution and distribution of living organisms. Explore solutions to issues in the global agriculture, health and medicine sectors, and the management of sensitive environments.

- **Biomedical Science**
  Explore physiology, pharmacology, anatomy, developmental biology, human genetics, neuroscience, human immunology and infectious diseases in preparation for a career in fundamental or clinical research.

- **Chemistry**
  Explore the structures and properties of molecules and materials, and new ways to use them in biochemistry, engineering, food science, materials science, nanotechnology and medicine.

- **Geographical Sciences**
  Study the spatial patterns and interactions of physical and human phenomena at local, national and global scales, and how they change over time.

- **Geological Sciences**
  Examine the interactive system of the solid Earth, atmosphere, hydrosphere and biosphere through hands on mineral and rock analysis, practical field mapping and advanced geophysics, geochemistry and subsurface modelling courses.

- **Mathematics**
  Deepen your mathematical understanding and combine it with modelling and computational skills to solve problems in the physical and biological sciences, engineering, information technology, economics and business.

- **Physics**
  Explore the principles governing the structure and behaviour of matter, the generation and transfer of energy and the interaction of matter and energy, and then apply them in your theoretical, experimental or applied research.

Minors
Choose from 26 minors to expand your knowledge in an additional area.

Placements and practical experience
After developing cutting-edge practical research skills in your first three years, you will apply them to an extensive research project in your fourth year. This will give you in-depth skills for a research career, as well as problem-solving techniques and critical thinking, writing and communication skills that are in demand in both academic and corporate sectors.

Careers
You will find expanding career possibilities in diverse roles within the government, health, corporate, environmental and financial sectors and in research organisations globally. Advanced Science is also an excellent pathway into medicine or a research higher degree such as a PhD.

SAMPLE COURSES
- Advanced Biochemistry and Molecular Biology
- Advanced Bioinformatics
- Advanced Genetics
- Advanced Techniques in Biomedical Science
- Advanced Organic Chemistry
- Advanced Physical Chemistry
- Advanced Earth Observation Sciences
- Environment and Society
- Advanced Structural Geology
- Ore Deposits and Exploration Geology
- Advanced Calculus and Linear Algebra
- Mathematics Honours Research Project
- Advanced Experimental Skills
- Condensed Matter Physics: Electronic Properties of Crystals

For more information [future-students.uq.edu.au](http://future-students.uq.edu.au) [science.uq.edu.au/planner](http://science.uq.edu.au/planner)
Bachelor of Agribusiness

Discover the commercial world behind agriculture and the complex and rapidly changing distribution and communication channels linking producers with consumers, in one of the leading agribusiness programs in the country.

Why Agribusiness at UQ?

Agribusiness drives the entire supply chain, from the seeds that grow crops to the machines that harvest them, all the way through to the retail marketing of food and fibre. It focuses on businesses that underpin the agricultural industry; both in Australia and overseas. Creating innovative, value-added food and fibre products, and managing inputs such as agricultural chemicals, fertilisers, machinery, human resources, and financial and productivity advisory services for businesses in the supply chain, agribusiness plays a vital role in the global economy. It also contributes to the commercialisation of new biotechnologies and information technologies to improve the production and marketing of food and fibre products.

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

This Agribusiness program has been developed in close and ongoing collaboration with the international and Australian agricultural sector to prepare you for a career in global agriculture. You will be taught by internationally ranked business experts, ensuring you receive the most relevant, up-to-date knowledge and practical experience.

What you will study

Learn to market, finance and manage people and technology along the agrifood value chain linking producers with consumers. You will acquire knowledge of agricultural value chains and all the business disciplines that apply in agribusinesses including domestic and international marketing, commodity trading, human resource management, finance, supply chain management, sustainability and the e-technologies increasingly being used to drive efficiency in agriculture. Tailor your studies through your elective courses, towards your preferred career path. Note: First year requires attendance at both St Lucia and Gatton; subsequent years are based at Gatton. Your courses at St Lucia are taught by the UQ Business School, and courses at Gatton are through the School of Agriculture and Food Sciences, both highly ranked worldwide in the business and agricultural sectors.

Placements and practical experience

During your first two years you will participate in agribusiness site visits, case studies and research projects. In your final year, you will undertake a major group project with an agribusiness company, working collaboratively as a member of a small team to address the client’s brief. Your project will focus on commercial outcomes and may include international market research. Regardless of the project undertaken, it will provide an excellent opportunity to apply your business skills and knowledge gained throughout the program in a real-life business context.

Dual programs

Study the Bachelor of Agribusiness as a dual degree with either a Bachelor of Equine Science, Bachelor of Sustainable Agriculture (majoring in Agronomy, Horticulture, or Livestock and Poultry Science), Bachelor of Veterinary Technology, or Bachelor of Wildlife Science. Combine your practical business skills with your interests in any of these four disciplines.

Career opportunities

On graduation you will be internationally oriented and job ready for positions in the agricultural industry in managerial, administrative or research roles related to agribusiness management and research; agripolitics; banking, finance, investment and insurance; commodity trading, sales and marketing; export marketing and management; Australian and international government agencies and departments; policy development and analysis in agricultural and regional agencies; property management; supply chain management and tourism.

Australian agribusiness is worth $270 billion and rising at 2.1 per cent per annum

IBISWorld Industry Report X0005, Agribusiness in Australia

<table>
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<th>QTAC CODE</th>
<th>UQ CODE</th>
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<th>START SEMESTER</th>
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<th>HONOURS</th>
<th>DUAL PROGRAM AVAILABLE</th>
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<td>11 / 77 / 27 / 76.50</td>
<td>11 / 77</td>
<td>3 years full-time (or part-time equivalent)</td>
<td>1</td>
<td>Gatton</td>
<td>N/A</td>
<td>Equine Science, Sustainable Agriculture, Veterinary Technology, Wildlife Science</td>
<td>Queensland Year 12 (or equivalent) English and Mathematics A or B</td>
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</table>

* Minimum (adjusted) selection threshold 2019 is the minimum score that was considered for an offer of a place to all applicants.
* Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2019.

SAMPLE COURSES

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

For more information future-students.uq.edu.au science.uq.edu.au/planner
Bachelor of Agricultural Science (Honours)

Learn to innovate and apply scientific techniques that improve crop and animal production to meet the world’s growing need for food and fibres.

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<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2019</th>
<th>LOWEST OP / RANK TO RECEIVE AN OFFER 2019</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
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<th>ADMISSION REQUIREMENTS</th>
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<td>9 / 82</td>
<td>4 years full-time (or part-time equivalent)</td>
<td>1, 2</td>
<td>Gatton</td>
<td>St Lucia</td>
<td>Part of standard program, awarded based on weighted grade point average</td>
</tr>
</tbody>
</table>

See 'Program table explained' on page 8

Minimum (adjusted) selection threshold 2019 is the minimum score that was considered for an offer of a place to all applicants.

Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2019.

Why Agricultural Science (Honours) at UQ?

The agricultural science sector is a major employer and contributor to Australia’s economy with two or more positions available for every university graduate.* At UQ you will access expert educators and researchers at the forefront of agricultural science globally, as well as extensive industry networks and specialist research facilities in biofuels, plant genomics and genetics, animal genetics, plant and animal improvement, soil and land resources, water management, plant protection, and animal health and welfare.

What you will study

In your first two years you will gain a solid understanding of the agricultural sector and undertake foundation and advanced courses in animal and plant sciences. In your final two years, you will specialise either in animal or plant science and during your final year, you will undertake an independent research project.

Majors

Animal Science

Focus on management, nutrition, reproduction, animal health, genetics, animal behaviour, microbiology, anatomy, physiology, biochemistry, and pasture science of production animals, including beef and dairy cattle, poultry, sheep, goats and pigs.

Plant Science

Learn the essential components of agronomy, plant molecular genetics and breeding, plant pathology, plant physiology and plant-soil interactions. Develop your broad knowledge of subtropical and tropical agriculture, and gain important scientific research skills to develop less resource-intensive crop production systems.

Placements and practical experience

In your third year you will undertake a three-week study tour in South-East Asia to focus on the biophysical, economic and social aspects of small-scale tropical production systems. An intensive research project in your final year will give you the skills for agricultural research and development, production, management and consulting, or service industries such as rural finance.

Get additional skills

Broaden your practical skills by concurrently enrolling in the Certificate III in Rural Operations or the Farm Ready program through UQ Skills (details available at bit.ly/uq-skills-courses).

Careers

You will work in local, national and international organisations to solve major challenges such as climate change, food security and the sustainable production of food and fibre for global consumption in roles such as agronomists and horticulturalists promoting profitable and sustainable crop cultivation; geneticists or soil scientists in government, industry and international institutions; agricultural consultants, extension and inspection officers or advisers for producers and companies; farm managers for national and international agribusiness companies and rural industries; advisers or resource economists in banks and financial organisations; land information systems officers and government policy regulators.

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SAMPLE COURSES

- Agricultural Biochemistry
- Agricultural Development in Asia
- Agricultural Economics
- Agricultural Microbiology and Gene Technology
- Agricultural Research Methodologies
- Agronomy
- Analysis of Scientific Data
- Animal Nutrition
- Australia’s Bio-Physical Environment
- Chemistry I
- Design and Analysis of Experiments
- Environment and Society
- Food for a Healthy Planet
- Land Use and Management
- Molecular and Quantitative Genetics
- Natural Resource Management
- The Soil Environment
- Tropical Agriculture

For more information
future-students.uq.edu.au/science.uq.edu.au/planner
Bachelor of
Biomedical Science

Study the latest in globally relevant biomedical practices, and gain the theoretical and hands-on skills to prepare yourself for a dynamic career in an industry that’s making incredible advances in modern medical science.

Why Biomedical Science at UQ?

Biomedical scientists assist in developing treatments for diseases, by carrying out clinical tests, evaluating the effectiveness of treatment, and researching the causes and cures for disease. Learn from leading UQ researchers at the forefront of developments in biomedical science and integrate your interdisciplinary studies to graduate with a well-grounded and wide-ranging knowledge of this field.

What you will study

During your first two years you will cover the broad areas of molecular and cellular biology through to body systems and learn the scientific process by experimental design, hands-on experiments and computer modelling. In your third year, choose to specialise in one or more areas of study.

Your areas of study

Courses focusing on molecular and cellular biology

Biochemistry and Molecular Biology

Gain the research tools to address questions on how cells divide, grow, communicate and die, and understand the structure, function and interactions of nucleic acids, proteins, carbohydrates and lipids, and their contribution to cellular activities and processes.

Developmental Biology

Learn how organisms and cells grow and develop organs and tissues using their genetic blueprint, which is central to understanding the basis of human health and disease.

Human Genetics

Use essential statistical and mathematical skills to study the human genome, contribute to the ethical debate on the use of genetic information and be part of future discoveries.

Immunology and Infectious Diseases

Examine the principles of immunological responses to infectious diseases and study the biology of microbes such as bacteria, fungi and viruses to understand how new vaccines and therapeutic treatments are developed.

Courses focusing on body systems

Anatomy

Understand human anatomy through the collection and evaluation of anatomical data and gain insights into human variation in health and disease. Perform tissue dissection to learn about the musculoskeletal, nervous and visceral systems.

Neuroscience

Study the nervous system which is responsible for integrating, processing and coordinating sensory information and motor commands and how neuroscience and neural stem cells are being used to treat neurological and mental illnesses.

Pharmacology

Learn how drugs impact the functioning of the human body and how pharmacologists are improving disease therapies through development of new drugs or better use of existing drugs.

Physiology

Investigate normal bodily processes and the changes occurring in disease. Apply your knowledge at the molecular and cellular levels to understand the integrative control of tissues, organs and systems.

Practical experience

For more than half of your program, you will apply theory to practice through practical laboratory-based experiments.

Careers

Find a career in hospital and diagnostic clinical laboratories; biotechnology and pharmaceutical companies; laboratory work in molecular and cellular biology; health policy and communication, secondary or tertiary teaching (if combined with a teaching qualification) or continue studies in medicine or allied health programs.

SAMPLE COURSES

Analysis of Scientific Data
Biochemistry and Molecular Biology
Cell Structure and Function
Differentiation and Development
Genetics
Human Anatomy
Microbiology and Immunology
Principles of Pharmacology
Systems Physiology

For more information

uq.edu.au/sbms
science.uq.edu.au/planner

See also information on the Biomedical Science major in the Bachelor of Advanced Science (Honours) on page 9 and the Biomedical Science major in the Bachelor of Science on page 24.
Why Biotechnology (Honours) at UQ?

Study biotechnology at UQ and you will be equipped with advanced skills in applied biotechnology for a career in research or industry. You will study microorganisms, plants and/or animals and learn how to translate scientific knowledge into biotechnology products and services through extensive, hands-on laboratory experience and practical product-development skills, while learning from Australia’s leading educators in biotechnology.

Biotechnology has resulted in new innovations such as the rapid diagnosis of infections like SARS and exotic influenzas, or inherited diseases such as cystic fibrosis; genetic engineering in plants and animals to improve yield, vitamin content or pest resistance; biological drugs using computational, recombinant DNA and antibody engineering techniques; biomaterials for tissue and organ replacement; DNA fingerprinting to confirm parentage or livestock pedigree, or in forensic applications and using bacteria to clean up oil spills.

What you will study

You will receive a strong foundation in molecular genetics, bioinformatics, microbiology, immunology, biochemistry, cells and genes, physics, chemistry, engineering, mathematics, and other essential subjects to understand the biotechnology sector. You will complete core technical skill courses offered in UQ’s Bachelor of Science and learn about commercial and intellectual property concepts important in the development of new biotechnology products. Your fourth year is taken at honours level, when you can choose either a research focus that addresses both fundamental and applied technical issues or a business and entrepreneurship focus for a career in new product development.

Single majors
- Bioinformatics
- Bioprocess Technology
- Chemical Biotechnology
- Drug Design and Development
- Microbial Biotechnology
- Molecular Biotechnology
- Nanotechnology
- Plant Biotechnology

Dual major

Study Innovation Management as a dual major with any of the single majors to combine your scientific skills with business knowledge to manage commercial outcomes from biotechnology research.

Placements and practical experience

Choose a Student Industry Placement or Internship and undertake a project to solve a technical or operational problem and produce a report on your findings. Find more information at scmb.uq.edu.au/industry-placements.

Bachelor of Biotechnology (Honours)

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

Over 850 biotech businesses operate in Australia

IBISWorld Industry Report X0001, Biotechnology in Australia

Careers

In Australia, the expanding biotech industry has more than 850 companies operating in sectors, including health, agriculture, chemical, pharmaceutical, diagnostics, environment, forestry, law and commerce with employment also offered in research organisations and startup ventures.

Sample courses

Bioinformatics
Advanced Bioinformatics
Programming in the Large
Bioprocess Technology
Biomolecular Engineering
Process Principles
Chemical Biotechnology
Determination of Molecular Structure
Experimental Chemistry
Drug Design and Development
Medicinal and Biological Chemistry
Systems Pharmacology
Microbial Biotechnology
Microbes and Human Health
Molecular Microbiology
Molecular Biotechnology
Genomics and Bioinformatics
Molecular Cell Biology
Nanotechnology
Nanoscience: Self-assembly
Nanoscience: Synthesis
Plant Biotechnology
Plant Biology
Plant Molecular Biology and Biotechnology

For more information
future-students.uq.edu.au
science.uq.edu.au/planner
Bachelor of Environmental Management (Honours)

Tackle complex global issues like climate change, pollution and land clearing. Discover how to critically assess the causes of environmental problems and develop better ways of managing and solving them.

Why Environmental Management (Honours) at UQ?

Learn from experts on how to manage the environmental challenges faced locally and globally and address the sustainability of natural environment and resources. You will gain 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 the first two years of study you will gain a sound understanding of the natural sciences. You will learn how to manage complex environmental problems through techniques and approaches to integrate biophysical, social, cultural, economic, legal and management factors. In your third year, you will undertake a two week field trip to investigate environmental management practices in a variety of contexts and complete an industry placement, to refine your understanding and skills in environmental management. In your final year, you will integrate and apply the research, core knowledge and skills acquired in your first three years and develop your ability to manage complex real-world problems that affect a range of natural or urban environments. If you are eligible, you can elect to undertake an individual research thesis in your fourth year or choose to undertake the industry-oriented group research project. Learn scientific, social, economic and managerial strategies to reduce the effect of industry and urban development on the environment and implement ways to reduce or eliminate existing and potential environmental concerns. Develop multidisciplinary skills in environmental management, decision-making and problem-solving with a focus on urban, industrial and rural environments. Tackle complex global issues like climate change, pollution and land clearing. 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, you will undertake a full semester of placement and practical experience. Apply your knowledge and skills during a compulsory two-week field trip to observe environmental management in practice, and network with practitioners in government and industry. For the remainder of the semester you will participate in an industry placement program, and undertake a supervised project in environmental management. In your final year, an in-depth research project or case study in conjunction with an external client will allow you to apply your knowledge and skills to a real-life environmental problem. As part of your studies, you can participate in a variety of field trips to a diverse range of environments across Queensland, and field trips to international locations, including Indonesia, Vietnam and Hong Kong. Use these components of the program to actively develop your connections with potential employers and industry and gain hands-on and practical skills to ensure that you will be industry-ready.

Careers

You will find employment in managerial, research, administrative and education roles within 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
- Cultural Heritage Management
- Sustainable Development
- Environmental Impact Assessment
- Environmental Problem Solving
- Geographical Information Systems
- Climatology & Hydrology
- Wildlife Management

For more information

future-students.uq.edu.au
science.uq.edu.au/planner

See ‘Program table explained’ on page 8

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2019*</th>
<th>LOWEST OP / BANK TO RECEIVE AN OFFER 2019*</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>ADMISSION REQUIREMENTS</th>
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<tr>
<td>705101</td>
<td>2376</td>
<td>10 / 79 / 28 / 78.70</td>
<td>10 / 79 / 11 / 77</td>
<td>4 years full-time (or part-time equivalent)</td>
<td>1, 2</td>
<td>St Lucia</td>
<td>Part of standard program, awarded based on cumulative weighted grade point average</td>
<td>Queensland Year 12 (or equivalent) English</td>
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</tbody>
</table>

* Minimum (adjusted) selection threshold 2019 is the minimum score that was considered for an offer of a place to all applicants.
* Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2019.
Why Environmental Science (Honours) at UQ?

Study environmental science at Australia’s most highly ranked university for research in environmental sciences and benefit from UQ’s local, national and global networks. This program will equip you with the knowledge and practical skills to understand the impacts of climate change and how to devise strategies to improve sustainability, manage ecosystems, preserve global biodiversity, and secure clean water and food.

Learn how to address the many challenges arising from diminishing natural resources and degrading environments. You will combine your scientific skills with knowledge of the legal, political and social aspects of environmental management as well as undertaking extensive practical, field and research experiences to become a skilled environmental scientist.

What you will study

Choose to specialise in one of four majors: Earth Resources, Ecology and Conservation, Environmental Toxicology, or Natural Resource Science. You will study core and advanced science and regulatory topics, participate in environmental science field trips and complete a substantial research project which includes an environmental impact assessment or an environmental audit.

Majors

**Earth Resources**
Study the physical and geological environment and develop knowledge and skills to minimise the impact of extraction of minerals, fossil fuels, water and other resources.

**Ecology and Conservation**
Develop your multidisciplinary skills in environmental management, decision-making and problem-solving to assist companies and governments to minimise conflict between growth and development and the environment.

**Environmental Toxicology**
Focus on the problems associated with existing and emerging environmental toxins to address the risks to environmental and human health and implement regulation.

**Natural Resource Science**
Study the way environmental processes can be described, monitored and predicted, and the effect of human impact on the physical and biological environment to devise solutions for a sustainable future.

Placements and practical experience

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

**SAMPLE COURSES**

<table>
<thead>
<tr>
<th>Earth Resources</th>
<th>Climatology and Hydrology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Geology</td>
<td>Mineralogy</td>
</tr>
<tr>
<td>Ecology</td>
<td>Outback Ecology Field Studies</td>
</tr>
<tr>
<td>Zoology</td>
<td>Environmental Toxicology</td>
</tr>
<tr>
<td>Natural Resource Science</td>
<td>Environmental Toxicology and Monitoring</td>
</tr>
<tr>
<td>Ecology</td>
<td>Integrative Cell and Tissue Biology</td>
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<td>Zoology</td>
<td>Medicinal and Biological Chemistry</td>
</tr>
<tr>
<td>Natural Resource Science</td>
<td>Ecology</td>
</tr>
<tr>
<td>Plant Biology</td>
<td>Soils, Landscapes and Environments</td>
</tr>
</tbody>
</table>

For more information future-students.uq.edu.au science.uq.edu.au/planner
Bachelor of Equine Science

Transform your passion for horses into a career. Focus on strategies to improve the management, performance and welfare across the global equine industry.

Why Equine Science at UQ?

You will be introduced to the scientific and practical aspects of the fast-growing global equine industry. Learning from UQ’s internationally regarded equine academic staff, you will acquire skills to improve outcomes for horses, riders and the equine industry. You will have access to an extensive range of equine facilities at our Gatton campus, which include equitation arenas (show jumping and dressage), breeding and horse-handling facilities, day yards and stabling amenities. Study this program either internally (on campus), or externally (off campus). The practical components for external students may be completed during intensive on-campus residential schools. Note that the external option is not available to international students studying in Australia on a student visa.

What you will study

In your first year you’ll build a strong understanding of animal biology, structure and function as well as chemistry. In your second and third years you will specialise in agricultural biochemistry, microbiology and its relationship to health and disease, horse behaviour, physiology, biomechanics, breeding, nutritional physiology and diet. As you progress through the program, choose from a range of electives, including agribusiness, biosecurity, pasture and production courses. You will graduate with scientific knowledge and practical skills that can be used in all aspects of the equine industry to improve the management, performance and welfare of all horses.

Dual program

You can study the Bachelor of Equine Science as a four year dual degree with the Bachelor of Agribusiness to combine practical business skills with your interests in equine science.

Placements and practical experience

During the program you will work extensively with horses from the UQ Australian Stock Horse stud, in conjunction with UQ’s expert instructors and lecturers. You will also be able to participate in a three-week tour of equine and production animal facilities in Kentucky and Texas, USA. You might also join the UQ Equestrian Club, which is part of UQ Sport. Further hands-on training is available by including a vocational program with your studies, or taking part in extended industry placements. You can also bring your own horse to agist at the Gatton campus.

Get additional skills

You can broaden your skill set by concurrently enrolling in the Certificate III in Rural Operations or the Farm Ready program through UQ Skills (details available at bit.ly/uq-skills-courses).

Careers

As an equine specialist, you will establish a career in:

• equine enterprise management
• agribusiness firms servicing the equine industry
• animal nutrition and animal health companies
• bloodstock agencies

• breed societies, equestrian centres and riding schools
• equine industry organisations and educational institutions
• equine journalism
• horse studs
• preconditioning and training businesses
• racing and competition stables
• sales and marketing
• statutory bodies administering racing and trotting.

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

SAMPLE COURSES

Samples of equine courses

Equine Behaviour and Performance
Equine Breeding and Stud Management
Equine Exercise and Rehabilitation
Equine Nutrition and Health
Fundamentals of Equine Science

Samples of other courses

Agricultural Microbiology and Gene Technology
Animal Anatomy and Physiology 1
Animal Breeding and Genetics
Animal Health and Epidemiology
Animal Nutrition
Animal Reproduction
Emerging Issues in Animal Bioscience
Short International Experience
Sustainable Animal Systems

For more information future-students.uq.edu.au science.uq.edu.au/planner
Why Mathematics at UQ?

Mathematicians and statisticians combine their knowledge with modelling and computer technology 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 excel in the mathematical aspects of other disciplines.

What you will study

You will gain quantitative and analytical skills and a foundation of calculus, linear algebra, discrete mathematics, mathematical analysis and modelling. You will develop a deep knowledge of mathematical topics and a high level of sophistication in the application of mathematics across a variety of fields and industries. Specialise your studies with a major, or diversify your study with a minor or a dual program and graduate with two degrees with only one extra year of study.

Majors

**Applied Mathematics**
Focus on the derivation and evaluation of models applied in the physical, biological and engineering sciences, and other fields such as financial mathematics.

**Data Analytics and Operations Research**
Develop skills in analysing large and complex data sets and learn how to make effective decisions using optimisation techniques.

**Mathematics**

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

**Pure Mathematics**
Examine the intrinsic nature and fundamental properties of mathematical concepts, and 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.

Minors

Combine your chosen major with a minor in Bioinformatics, Computer Science or Physics.

Placements and practical experience

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

Careers

Demand for quantitatively trained graduates is at an all-time high and you will be sought by industry for your excellent problem-solving abilities. You will gain a wide range of rewarding positions in finance, economics, mathematical research, statistics, actuarial studies, quantitative finance, meteorology, information technology, data science and teaching.

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**QTAC CODE**

**UQ CODE**

**MINIMUM SELECTION**

**THRESHOLD 2019**

**LOWEST OP / RANK TO RECEIVE AN OFFER 2019**

**DURATION**

**START SEMESTER**

**CAMPUS**

**HONOURS**

**DUAL PROGRAM AVAILABLE**

**ADMISSION REQUIREMENTS**

714401  2393  4 / 36 / 94.00  6 / 90  3 years full-time (or part-time equivalent)  1, 2  St Lucia  Additional year of study  Arts, Business Management, Commerce, Computer Science, Economics, Education (Secondary), Science, Information Technology, Engineering (Honours)  Queensland Year 12 (or equivalent) English and Mathematics B

See ‘Program table explained’ on page 8

* Minimum (adjusted) selection threshold 2019 is the minimum score that was considered for an offer of a place to all applicants.

* Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2019.

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**SAMPLE COURSES**

**Applied Mathematics**
Financial Mathematics
Mathematical Biology
Data Analytics and Operations Research
Experimental Design
Optimisation Theory

**Mathematical Physics**
Abstract Algebra and Number Theory
Algebraic Methods of Mathematical Physics

**Pure Mathematics**
Functional Analysis
Graph Theory and Design Theory

**Statistics**
Probability and Statistics
Statistical Modelling and Analysis

For more information future-students.uq.edu.au science.uq.edu.au/planner
Why Occupational Health and Safety Science (Honours) at UQ?

This unique program combines studies of health, psychology, law, ethics and management with practical skills through placements, worksite visits and industry experience. You’ll learn scientific approaches to identifying, assessing and controlling chemical, physical and biological hazards. You’ll also learn about psychosocial health factors, like stress, bullying, harassment and fatigue. With these key skills, you will be able to monitor and modify work environments, deliver education programs, analyse workplace data, devise, evaluate and implement OHS management systems, undertake OHS auditing and inspections, complete accident investigations and ensure compliance with legislation.

What you will study

You will study occupational hygiene, ergonomics, occupational health, safety science and risk management. Your first year of study will incorporate a strong basis in the foundation sciences and interaction with OHS professionals. You’ll learn scientific approaches to identifying, assessing and controlling chemical, physical and biological hazards. You’ll also learn about psychosocial health factors, like stress, bullying, harassment and fatigue. With these key skills, you will be able to monitor and modify work environments, deliver education programs, analyse workplace data, devise, evaluate and implement OHS management systems, undertake OHS auditing and inspections, complete accident investigations and ensure compliance with legislation.

Placements and practical experience

In your final year, you will complete a minimum of 480 hours of placement with one or two industry partners to ensure you are qualified and prepared to enter the workforce with diverse employment opportunities as employers worldwide recognise your skills and practical knowledge.

Careers

OHS professionals with sound scientific knowledge are in short supply and in high demand. You will be ready to work in remote, rural or urban regions in government, consultancy or the private sector, with roles in areas such as mining, agriculture, retail, hospitality, construction, transport, manufacturing and healthcare. Roles in large organisations and consulting firms offer mentoring by senior OHS staff, and travel within Australia and overseas. Comparatively, solo positions offer hands-on experience across the full range of OHS issues and expose you to other business activities, such as human resources and production.

For more information

future-students.uq.edu.au
science.uq.edu.au/planner

Minimum of 480 hours of industry placement in your final year

Bachelor of

Occupational Health and Safety Science (Honours)

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

See the campuses where you’ll study and get hands-on experiences at UQ Open Day or our range of residential camps and campus STEM experiences.

**UQ Open Day**
St Lucia **4 August 2019**
Gatton **18 August 2019**
Find out about programs and courses, explore the campus and facilities, meet staff and current students, and enjoy the range of fun activities at this free event.
future-students.uq.edu.au/open-day

**STEM Experiences**
UQ offers students in years 9-12 access to a wide range of unique practical science experiences, including:
Future Experiences in Agriculture, Science and Technology (FEAST) **5 days, residential**
Earth and Environment Day **1 day, on campus**

Heron Island and Moreton Bay Research Station Camps
1-5 days (customisable), residential

Sunflower Competition
All year, in classroom experiment

Experience Science
1 day, on campus
uq.edu.au/high-schools/activities-and-workshops-students
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.

Bachelor of Science St Lucia and Herston

<table>
<thead>
<tr>
<th>OTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2019* OP / RANK / IB / ATAR</th>
<th>LOWEST OP / RANK TO RECEIVE AN OFFER 2019* ADJUSTED UNADJUSTED</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>DUAL PROGRAM AVAILABLE</th>
<th>ADMISSION REQUIREMENTS</th>
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<tr>
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<td>2050</td>
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<td>3 years</td>
<td>1, 2</td>
<td>St Lucia, Herston</td>
<td>Additional year of study</td>
<td>Arts, Biomedical Science, Business Management, Commerce, Computer Science, Economics, Education (Secondary), Engineering (Honours), Information Technology, Journalism, Laws (Honours), Mathematics, Music (Honours)</td>
<td>Queensland Year 12 (or equivalent) English and Mathematics B, plus one of Chemistry or Physics</td>
</tr>
</tbody>
</table>

Why Science at UQ?

UQ’s Bachelor of Science (BSc) will give you the perfect balance of a defined sequence of study combined with flexible course options. With a choice of 26 majors, you can study an extensive range of courses supported by innovative research to graduate with superior technical skills, and advanced independent thinking and communication skills. Use this range of courses to tailor the program to your individual interests and career goals. Select course combinations from science and non-science disciplines in your first year, then in your second and third years focus on one or two specialist areas (majors) to deepen your knowledge.

Bachelor of Science with Honours

As you near the end of your BSc, you may consider applying for an honours program. Honours is an additional year of study that is essentially a research apprenticeship for a young scientist. You will work under the guidance of a researcher on a specific project of interest to them, and learn about the research environment, how to perform critical experiments and analyse data, and how to communicate and present your results. UQ Science Honours graduates are in high demand by employers due to their ability to work independently.

Bachelor of Science major at Gatton

If you choose to study the Animal and Veterinary Bioscience major, you will access the exceptional teaching and research facilities at the Gatton campus. Animal and Veterinary Bioscience will provide you with a solid biological foundation for a career in scientific research, the animal bioscience industry and related sectors. Select this major to progress into the Bachelor of Veterinary Science.

For more information

future-students.uq.edu.au
science.uq.edu.au/planner

Anna Podolsky
Bachelor of Science (Mathematics), Bachelor of Commerce (Finance), Consultant, Bain & Company, Santiago, Chile

“The skills I attained through my mathematics major were crucial to securing my position at Bain, as it provided me with a strong analytical base.”
Double your opportunities

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

As the world around you changes, new and fascinating career opportunities are created every day, and job roles increasingly combine multiple disciplines.

BSc + another bachelor degree

Enrol in a dual program to complete two degrees in a shorter time than completing each program separately. You will have the flexibility to study two areas of interest at once, extend your knowledge and skills to broaden your career opportunities, and gain a competitive employment edge. Note: The dual program option is not currently available for the Gatton major.

Applying for a dual program

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 future-students.uq.edu.au for application details.

Transferring to a dual program

Once you have started your BSc, you can transfer to a dual program by requesting a program change or applying through QTAC. Faculty of Science academic advisers can provide further information about the best options to suit your individual needs.

Study a Bachelor of Science in combination with:

• Arts
• Biomedical Science
• Business Management
• Commerce
• Computer Science
• Economics
• Education (Secondary)
• Engineering (Honours)
• Information Technology
• Journalism
• Laws (Honours)
• Mathematics
• Music (Honours).

A dual program, also called a double degree, will equip you for this evolving job market. It gives you the flexibility to study two different disciplines in a much shorter time, by studying only the mandatory courses for each program with fewer or no electives.

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>DURATION (YEARS)</th>
<th>MINIMUM SELECTION THRESHOLD 2019* OP / RANK / IB / ATAR</th>
<th>LOWEST OP / RANK TO RECEIVE AN OFFER 2019 ADJUSTED</th>
<th>UNADJUSTED</th>
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<tr>
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<td>9 / 82 / 29 / 81.85</td>
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<tr>
<td>Science / Laws (Honours) (BSc/LLB(Hons)) X</td>
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<td>2* / 98* / 40* / 98.00*</td>
<td>1 / 99</td>
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</table>

* Minimum (adjusted) selection threshold 2019 is the minimum score that was considered for an offer of a place to all applicants.
* Highest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2019.
* Not all applicants on this OP/Rank gained entry; finer discrimination within the OP/ Rank was used.
* 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.
* Selection based on audition, interview and academic results.
* OP Guarantee does not apply to these programs.

Save time

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

Strike a balance

Why compromise when you can balance your studies and your sanity by pursuing both your career ambitions and passions? Dual program students appreciate the diversity of topics offered in their two different programs.
The UQ BSc program is recognised as excellent preparation for studying Medicine and to advance into a medical career. Alternatively, the UQ BSc offers a pathway to improve your entry rank for programs such as Engineering, Veterinary Science or Pharmacy. By completing a year of full-time study in the BSc, you can use your level of achievement at university (your Grade Point Average or GPA) as a way to meet the higher entry requirements of other programs. In some cases, you may gain credit into your new program for courses completed in the BSc. If you are planning to use the BSc to improve your entry rank, you should always seek advice on the GPA required to allow you to transfer into your chosen program, as entry into some programs – particularly in the health sciences and veterinary science – is very competitive. See your academic adviser early in your studies so they can help you keep all your options open and carefully plan your first year to make sure that, if you are unsuccessful in transferring to your chosen program, you can still continue in the BSc.

Bachelor of Science Majors

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 dual major – in your chosen area of science. Tailor your BSc study plan according to your interests and explore the flexibility to incorporate one-third of your courses from other UQ programs.

**What is the difference between a major, an extended major and a dual major?**

A major is an area of specialisation focusing on a single discipline within a program. For example, Chemistry is a major within the Bachelor of Science. An extended major is similar to a major but contains more courses and provides greater depth in that area of study. A dual major is a combination of two different disciplines, for example Biophysics is a combination of Biology and Physics.

**Dual Majors**

- Biophysics
- Chemical Science
- Computational Science
- Food Science and Nutrition

**Majors – St Lucia**

- Archaeological Science*
- Biochemistry and Molecular Biology
- Bioinformatics
- Biomedical Science*
- Chemistry
- Computer Science*
- Ecology
- Food Science and Technology*
- Genetics
- Geographical Sciences
- Geological Sciences*
- Marine Biology**
- Marine Science
- Mathematics*
- Microbiology
- Physics*
- Plant Science
- Psychology*
- Public Health***
- Statistics
- Zoology

* Also available as an extended major.
** Only available as an extended major.
*** This major is taught at St Lucia and Herston.

"My time at UQ gave me the best possible start in working in the field of conservation science. I got to meet and work with many world leaders in the field, see what it’s like to be a scientist as a career and started doing globally applicable research straight away."

**Hannah Wauchope**

Bachelor of Science (Honours) (Zoology and Ecology) PhD candidate Cambridge University, UK

For more information
future-students.uq.edu.au
science.uq.edu.au/planner
What you will study
Companion animals, production animals and wildlife play important ecological, economic and social roles, and contribute to human health and wellbeing. Study Animal and Veterinary Bioscience to find how animals function, grow and reproduce, and how to improve their production, health and welfare. You will work with global collaborators to create farming systems that maintain sustainable ecosystems and conserve wildlife populations to enhance diversity and sustainability. You will acquire knowledge of biochemistry, microbiology, behaviour and genetics to build your expertise in nutrition, reproduction, animal health and conservation. In your second and third years you will focus on your specific area of interest. The Animal and Veterinary Bioscience major can also be a pathway into the Bachelor of Veterinary Science (Honours) at UQ and is the only major at UQ providing direct credit into that program based on courses completed.

Careers
You will find employment in roles as an animal production, health and wellbeing consultant; animal nutritionist; biosecurity officer/consultant; conservationist; industry regulator in government agencies or research scientist.

Also available as an extended major.

SAMPLE COURSES
- Animal and Plant Biosecurity
- Animal and Veterinary Biology
- Animal Reproduction
- Cell and Tissue Biology for Agriculture and Veterinary Science
- Emerging Issues in Animal Biosciences
- Molecular and Quantitative Genetics
- Stem Cells, Clones and Genetically Modified Organisms

ARCHAEOLOGICAL SCIENCE

What you will study
Archaeology increasingly uses scientific approaches and ways of thinking that have revolutionised research into globally significant issues such as human evolution and dispersal, the development of civilisation, and human–environment relationships. Archaeological science techniques also underpin professional archaeology, which is a significant area of the cultural heritage industry.

Combine your core archaeology skills with geography, earth science, biology, chemistry or psychology and engage in practical and field-based courses, from surveying and digging to post-excavation analysis, with the opportunity to participate as a volunteer on lab and field-based research projects. UQ is recognised as a leader in this discipline and you may also participate in UQ-organised excavation field-based research digs in Australia and overseas (currently located in Turkey, East Africa and Hawaii).

Careers
You will find employment in commercial consulting, university teaching and research, government, museums and forensic science.

SAMPLE COURSES
- Advanced Research in Archaeology
- Animals and Archaeology
- Biogeography and Geomorphology
- Managing Cultural Heritage
- Field Archaeology
- Historical Archaeology
- Palaeobiology
- Forensics: the Archaeology of Death & Crime Scenes

BIOCHEMISTRY AND MOLECULAR BIOLOGY

What you will study
Biochemistry and molecular biology studies the chemical basis of life and underpins all disciplines of biology. You will study the molecular events controlling the growth and development of cells and organisms in all living things. Your lecturers are experts who will help you gain an understanding of how molecular events can go wrong in certain disease states and how this contributes to the development of new drugs. Through practicals, structured tutorials and specialised seminars you will discover the relevance of biochemistry and molecular biology to research and development in medicine, the environment, agriculture, proteomics, genomics, bioinformatics, biotechnology, genetic engineering and drug design.

Careers
You may work in agriculture, health, biotechnology, the environment and pharmaceutical development as a research biochemist or molecular biologist in laboratories in universities, research institutes and companies, investigating the molecular networks controlling normal biological processes and defective processes associated with disease affecting animals and plants. Using the latest genetic engineering and molecular-biological techniques, you may contribute to the development of new approaches to diagnose and treat diseases.

SAMPLE COURSES
- Cell Structure and Function
- Cells to Organisms
- Genomics and Bioinformatics
- Human Molecular Genetics and Disease
- Microbiology and Immunology
- Molecular Cell Biology
- Molecular Systems Biology
What you will study

With rapid advances in computing and increasing amounts of biological information generated by emerging technologies, bioinformatics is changing how we make scientific discoveries and interpret data. Study a major in Bioinformatics and you will develop knowledge in computer science, genomics, proteomics and molecular biology, and gain a range of related skills, such as machine learning and statistics, to equip you to pursue a career in the broader areas of computational modelling and intelligent systems involving “big data”. Choose to follow the Computational Science or Genetics, Genomics and Systems Biology plans. These two plans focus on either the computational concepts for solving problems in the biological sciences or understanding the fundamental challenges facing biologists.

Careers

With a worldwide shortage of trained bioinformaticians and computational biologists, your strong scientific knowledge and interdisciplinary skills in computing and biology, will be in demand in pharmaceutical and medical technology companies, research organisations and governments, in roles such as bioinformatician, clinical data manager, geneticist, research scientist and biomedical computer scientist.

SAMPLE COURSES

- Introduction to Bioinformatics
- Advanced Bioinformatics
- Introduction to Software Engineering
- Genetics
- Relational Database Systems
- Biochemistry and Molecular Biology
- High-Performance Computing
- Mathematical Biology
- Molecular Systems Biology
- Visualisation, Computer Graphics and Data Analysis

BIOMEDICAL SCIENCE

What you will study

Biomedical scientists understand how the human body works and what goes wrong in diseases, and develop new treatments. They provide the foundation of modern healthcare by working in partnership with other healthcare professionals to diagnose disease, evaluate the effectiveness of treatment, and research the causes and cures of disease. Your biomedical science studies at UQ incorporate extensive practical experience in research laboratories where the latest breakthroughs in medical sciences are taking place. Your first-year courses will provide a broad foundation in biology, chemistry and mathematics. Throughout the remainder of your degree you will expand your knowledge by choosing courses in the areas of anatomy, developmental biology, human genetics, immunology and infectious diseases, neuroscience, pharmacology and physiology.

Careers

You will find employment in research institutes, government, education and industry in technical and scientific positions, academic and research roles, or scientific marketing.

A major in Biomedical Science may also be used to gain graduate entry to programs such as the Doctor of Medicine. Biomedical Science is also available as an extended major.

SAMPLE COURSES

- Chemistry I
- Development and Differentiation
- Genetics
- Genes, Cells and Evolution
- Human Anatomy
- Integrative Cell and Tissue Biology
- Microbiology and Immunology
- Molecular and Cellular Neuroscience
- Principles of Pharmacology
- Systems Physiology

BIOPHYSICS

What you will study

Many of the most exciting discoveries in recent history have been the result of scientists working at the interfaces between disciplines. Biophysics – positioned at the crossroads of biology, physics and chemistry – applies theories and principles of physics and chemistry to ultimately understand how biological systems work. Biophysicists may develop and build new instruments and tools for research and biomedical purposes or may conduct research in fields including biomolecular modelling, crystallography, spectroscopy, medical physics and nanotechnology. In studying Biophysics at UQ, you will undertake studies and build technical skills across a range of fields to develop an understanding of molecular processes and systems, study methods for determining or predicting properties of biomolecules, or learn about the physiological processes within cell membranes vital to the workings of biological systems.

Complement your knowledge with studies in business, arts or engineering through a dual program.

Careers

With your interdisciplinary training, you will find employment in universities, research centres, pharmaceutical companies, scientific technology companies, hospitals and government departments.

SAMPLE COURSES

- Advanced Physical Chemistry
- Calculus and Linear Algebra I
- Chemical Biology
- Determination of Molecular Structure
- Electromagnetism and Modern Physics
- Foundations of Biophysics
- Integrative Cell and Tissue Biology
- Molecular and Cellular Neuroscience
- Molecular Systems Biology
- Programming in the Large
What you will study
Chemical science exploits the strong connections between chemistry and the biological sciences, materials sciences and nanosciences. Choose to specialise in either Chemical Biology or Materials and Nanoscience.

The Chemical Biology stream explores molecular processes controlling the structure and function of complex biological systems and synthesis of new molecules which is essential in modern pharmaceutical and medical research. The Materials and Nanoscience stream explores the synthetic strategies and processes of self-assembly for the controlled arrangement of atoms and molecules. You will develop an understanding of the relationship between molecular structure and the macroscopic properties of systems used in medicine, energy production, electronics, biotechnology and consumer products.

Careers
Scientists with comprehensive, highly developed multidisciplinary skills and chemical sciences expertise are in demand and sought by pharmaceutical and medical research organisations, the biotechnology sector, materials manufacturing and development companies. Your expertise also provides the perfect platform for a research career at the interface of chemistry and biology or chemistry and material sciences.

This major is accredited by the Royal Australian Chemical Institute.

SAMPLE COURSES
Advanced Experimental Chemistry
Medicinal Chemistry and Chemical Biology
Nanomaterials and Self-Assembled Systems
Biochemistry and Molecular Biology
Advanced Physical Chemistry
Advanced Organic Chemistry
Chemical Biology

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“I not only wanted to pursue my love of science, but I wanted to gain transferable skills. My studies helped me to develop my analytical thinking and more broadly the ability to understand a range of scientific and engineering concepts beyond the chemistry which I specialised in. We had excellent lecturers who went beyond the syllabus to give us a broad education.

I also came to realise just what a fantastic campus St Lucia is. Not just in aesthetics, but the facilities, both in the labs and for the extracurricular activities offered. Through a large number of student volunteering opportunities I also developed good public engagement and organising skills.”

Julia Stuthe
BSc Hons (Chemistry), PhD
Director Pharmaceutical and Biotech Markets, Springer Nature Publishing
### Computational Science

**What you will study**

This interdisciplinary field uses skills from mathematics and information technology to solve scientific problems through computation. Computational scientists collect and process large amounts of data and design sophisticated models and simulations to create new knowledge. As Computational Science is only available as a dual major, you can choose a compatible single major from within the BSc and combine it with Computational Science to broaden your studies with another area of interest. This allows you to study additional courses in information technology, mathematics and computational methods to further develop your computational and quantitative skills.

**Careers**

With your specialist knowledge and skills, you will have a competitive employment advantage in industry. You will work in roles such as a theorist, researcher and/or inventor where you will apply your theoretical expertise and innovation to complex problems and the creation of new technologies in areas such as genome research, molecular and microbial sciences and bioinformatics and scientific research and analysis in biology, mathematics, computer science, visualisation and computational methods, and also in the construction and maintenance of large scale simulations and models, especially in the business, finance, engineering and government sectors.

**Sample Courses**

- Advanced Bioinformatics
- Algorithms and Data Structures
- Computational Physics
- High-Performance Computing
- Introduction to Bioinformatics
- Mathematical Biology
- Numerical Methods in Computational Science
- Probability Models and Stochastic Processes
- Visualisation, Computer Graphics and Data Analysis

### Computer Science

**What you will study**

Computer scientists advance fundamental understanding of computing, develop new and improved problem-solving techniques and design more efficient and powerful computing devices and technology. You will study a core set of computing courses and courses from other areas of science. In your first year, you will study foundational courses in programming/software engineering, information systems and discrete mathematics. The second and third years have more specialised courses in computer systems, human-computer interaction, algorithms and data structures, artificial intelligence, computer networks and information security. Take advantage of opportunities for major individual and team projects with exposure to real-world problems from industry and other areas of science.

**Careers**

Computer programmers are in high demand in health and scientific industries as experts in analysing and simulating massive data; as software programmers and online network specialists working in music, computer games, media and retail industries; as information security specialists in finance and commerce sectors; and as programming and computer systems experts in government sectors.

Computer Science is also available as an extended major.

**Sample Courses**

- Algorithms and Data Structures
- Artificial Intelligence
- Computer Networks I
- Human-Computer Interaction
- Information Security
- Operating Systems Architecture
- Relational Database Systems
- Social and Mobile Computing
- Visualization, Computer Graphics and Data Analysis

### Ecology

**What you will study**

Ecologists study the interaction of organisms and their environments to find solutions for environmental problems such as climate change and using resources sustainably. You will gain first-hand practical experience in solving ecological problems in a range of rainforest, outback and marine environments including the Great Barrier Reef and island ecosystems.

Choose to specialise in:

- **Terrestrial Ecology** – recommended for a career in natural resource management, consultancy, conservation biology or research in terrestrial ecology
- **Marine Ecology** – recommended for careers in fisheries management, marine parks, environment consultancy or the Environmental Protection Agency (EPA), or fundamental research in marine ecology
- **Evolutionary Ecology** – recommended for employment in federal government agencies eg CSIRO; state agencies (Department of Agriculture, Forestry and Fisheries or the EPA); or in research at universities.

**Careers**

Employment demand for environmental scientists and ecologists has risen strongly in the past five years, with roles available in government, private industry, environmental impact assessment consultancies or postgraduate studies in ecology and evolution.

**Sample Courses**

- Ecology and Evolution of Animal-Plant Interactions
- Macroecology and Biogeography
- Ecology Field Studies
- Analysis and Communication of Biological Data
- Tropical Marine Ecosystems
- Ecology
- Biostatistics and Experimental Design
- Vertebrate Diversity and Evolution
- Zoology
**FOOD SCIENCE AND NUTRITION**

**What you will study**

The study of nutrition and food is integral to the health and longevity of society. You will study all aspects of the food system from ‘farm to fork’, including food processing principles, shelf life studies and sensory evaluation of products with consumer panels, and the microbiological and chemical testing of products for consumer safety. You will examine the psychological, sociological and cultural factors influencing food choice and their effect on consumer health. Learn the physical and chemical composition of food to understand how food behaves under different processing and storage conditions, and how to improve the safety and quality of food and the range of products available.

**Careers**

As a food and nutrition scientist you will be in demand to provide safe and nutritious food to the increasing global population and work in community nutrition and education, food policy, research and development, food safety, food processing, food quality assurance, or technical sales and marketing.

To gain accreditation as a dietitian, on completion of your Bachelor of Science (Food Science and Nutrition), undertake the postgraduate Master of Dietetics. Your BSc studies in biochemistry, physiology and nutrition will meet the required entry standards.

**SAMPLE COURSES**

- Community and Public Health Nutrition
- Principles of Food Preservation
- Nutrition and Exercise
- Nutrition Science
- Food Chemistry
- Food Microbiology I
- Food Microbiology II
- Food Process Engineering I and II
- Food Product Development
- Food Policy, Safety and Quality Management
- Food Structure and Sensory Science
- Functional Foods and Nutraceuticals
- Food, Policy Safety and Quality Management

**FOOD SCIENCE AND TECHNOLOGY**

**What you will study**

Food scientists apply chemical, physical and biological sciences to ensure the quality, safety, nutritive value, processing and storage of food. Based in chemistry, biochemistry, technology/engineering, microbiology and biometry, it is the science underpinning the food industry, the largest manufacturing industry in Australia. Learn the technical aspects of foods from ‘farm to fork’, including development of new food products, the industrial processes used to manufacture food, packaging materials for optimal storage and transport, how to conduct shelf-life studies, sensory evaluation of products, and microbiological and chemical testing of products for consumer safety. Understand the processes involved in developing, producing and evaluating new foods, examine the causes and prevention of foodborne illnesses, learn the methodologies for microbiological and chemical testing of food, and discover the causes and prevention of quality degradation.

**Careers**

You will be in demand from Australia’s largest manufacturing industry and find employment in food technology, process and product development, food microbiology, food standards and policy, production management, quality assurance, food safety, research and development or technical sales and marketing. Food Science and Technology is also available as an extended major.

**SAMPLE COURSES**

- Food Chemistry
- Food Microbiology I
- Food Microbiology II
- Food Process Engineering I and II
- Food Product Development
- Food Policy, Safety and Quality Management
- Food Structure and Sensory Science
- Functional Foods and Nutraceuticals
- Principles of Food Preservation

“I am passionate about food and was curious to know about the science of it, particularly the structure of foods and the chemical reactions that take place during processing. I chose to study food technology because of the career opportunities and job prospects for graduates. The courses at UQ were intellectually stimulating and gave me the opportunity to work in teams and undertake work experience to build industry connections and put into practice what I learnt. The program really prepared me well for a career in food technology.”

Kate Brazier

Bachelor of Food Technology, Quality Assurance Administration Officer at OSI International Foods
GENETICS

What you will study
Genetics is transforming modern biology with completely sequenced genomes, computational analysis and molecular analytic tools – allowing unprecedented discoveries. You will learn to apply genetic principles to diagnose, treat, prevent and cure illnesses in animals, plants and humans; to provide security for agriculture and food production; to appreciate the diversity of life; and to develop an in depth understanding of the structure and expression of genes, the genetic basis of traits, and the interaction between genes. A major in Genetics could see you helping the public understand the nature of genetic disease, studying the genetic diversity in endangered species populations, facilitating the development of breeding programs and conservation efforts to prevent extinction, or even using genetic engineering to generate products that make lives better. Study your Genetics major on its own or combine it with another scientific discipline.

Careers
Career choices for geneticists are some of the broadest available in the biological sciences, ranging from ecology and genome research to medicine and agriculture. You could work in roles such as a molecular geneticist, genetic counsellor in hospitals, conservation geneticist or biotechnologist. Many BSc graduates also enter into further research-based studies in honours, master’s and Doctor of Philosophy (PhD) Programs.

SAMPLE COURSES
- Biochemistry and Molecular Biology
- Genes, Cells and Evolution
- Genetics
- Genetics and Evolution of Complex Traits
- Genomics and Bioinformatics
- Human Molecular Genetics and Disease
- Laboratory Skills in Genetic Research
- Model Organism Genetics

GEOGRAPHICAL SCIENCES

What you will study
Geographical Sciences combines studies of physical geography, human geography and geographic information science (GIS). Physical geography examines the patterns and processes in the atmosphere, hydrosphere, biosphere and cryosphere and the effects of human activities on these systems. Human geography investigates human interaction with the cultural and natural environments, and how physical geography can inform the sustainable use of the Earth’s natural systems. GIS courses equip you to model, manage, analyse and apply geo-referenced information. Specialise in earth systems science, climatology, biogeography and landscape ecology, hydrology and geomorphology, marine and coastal systems, society and the environment, urban and economic geography, demography and GIS. Field studies in the Asia-Pacific region provide a comparative study of contemporary society, demography, and environmental and planning issues facing the region.

Careers
You will be in high demand for roles in natural resource management, national parks and wildlife conservation, ecotourism, planning the delivery of human services, and environmental monitoring and pollution control, teaching and research, meteorology and GIS. An additional honours year after graduation will enhance your project management and communication skills or prepare you for a research career.

SAMPLE COURSES
- Catchment Processes and Management
- Climatology and Hydrology
- Geographical Information Systems
- Geography of Australia
- Geospatial Processing and Web Mapping
- Meteorology
- Physical-Biological Oceanography
- Plants, People and the Environment
- Palaeoenvironments

GEOLOGICAL SCIENCES

What you will study
Geologists study the interacting systems of the Earth, atmosphere, hydrosphere and biosphere to discover, develop and responsibly manage minerals, energy and other resources. Geology is essential in solving environmental challenges such as managing water resources, understanding global climate change or identifying geohazards. Specialise in economic geology, mining geology, energy resources, geophysics, environmental geology, geochemistry, palaeobiology, marine geology, surficial processes and landscape evolution, tectonics, and remote sensing.

Study the Geological Sciences extended major or broaden your focus to include other science disciplines. You will have the option of completing advanced courses in field geology, culminating with a trip to the Mt Isa region. Field and laboratory based projects during an additional honours year of study will continue to solidify your skills and provide essential training for independent research and project management.

Careers
Long-term employment prospects are strong, with employment in resource and engineering companies, international contractors, government or research agencies as geoscientists, hydrologists, geophysicists, or environmental planners. Both the single and extended majors are recognised by of the Australasian Institute of Mining and Metallurgy.

SAMPLE COURSES
- Energy Resources
- Field Geology
- Geology of Coral Reefs
- Hydrogeology
- Igneous and Metamorphic Petrology
- Introduction to Geophysics
- Mineralogy
- Ore Deposits and Exploration Geology
- Sedimentology, Stratigraphy and Palaeoenvironments
What you will study
Marine biologists investigate the biology of marine organisms and their relationship to physical and biological aspects of their environments. Topics range from interactions among microbes to the impacts of global climate change, and from natural ecosystems to intensive aquaculture. You will develop a breadth of specialised knowledge of marine biological systems and the application of ecological and environmental strategies to conserve and manage marine organisms and ecosystems. With one of the largest marine research groups in Australia, your studies will be enriched by the input of researchers at the forefront of this dynamic discipline. Field trips to UQ’s Heron Island Research Station on the southern Great Barrier Reef and the Moreton Bay Research Station on North Stradbroke Island are offered as a part of your study. You will gain and apply practical laboratory skills and scientific knowledge to prepare you for a broad range of employment opportunities.

Careers
You can work in engineering and consulting companies, fishing and aquaculture industries, marine parks, ecotourism, marine resource development, marine science institutes, museums, oil companies, teaching, research and wildlife conservation.

Marine Biology is only available as an extended major.

SAMPLE COURSES
- Analysis and Communication of Biological Data
- Fish, Fisheries and Aquaculture
- General, Organic and Biological Chemistry
- Genes, Cells and Evolution
- Global Challenges in Biology
- Marine Ecology and Conservation
- Marine Invertebrates
- Marine Science
- Tropical Marine Ecosystems
- Physical-Biological Oceanography

What you will study
As a marine scientist you will study oceans and coastal ecosystems, using biological, chemical and physical sciences. You will experience how researchers investigate the marine realm, including the physical processes like waves and currents on coasts and in the oceans, and their importance to the biology and ecology of marine organisms. You will expand your knowledge of marine molecular biology, ecology, fisheries, aquaculture, marine geology and marine conservation. You will gain extensive practical research experience, interact with world-renowned research scientists, and visit field stations and laboratories, including UQ’s Heron Island Research Station on the southern Great Barrier Reef and Moreton Bay Research Station on North Stradbroke Island. You can specialise in Marine Biology, Ecology and Conservation, Marine Geoscience, or Coastal Environments.

Careers
In Australia, marine-based industries are worth more than $16 billion annually and offer a diverse variety of job opportunities in engineering and consulting companies, fishing and aquaculture industries, food technology, marine parks, ecotourism, marine resource development, marine science institutes, museums, oil companies, pharmacology, teaching, universities and wildlife conservation.

Romain Mari
Bachelor of Marine Biology & Ecology, Master of Environmental Management, Owner – Distant Relatives Ecolodge & Backpackers

“...I was drawn to studying Marine Biology initially, and came to UQ as it has some of the best courses, researchers and supervisors in this area! Many classes were very inspiring with lecturers who also worked with industry or on international environmental projects with global impact. I also loved the field trips to Research Stations of Heron Island and Moreton Bay, and the Rainforest Ecology trip was equally memorable. At the Moreton Bay Research Station on Stradbroke Island I even had the opportunity to run my own marine research project in their on-site aquariums.”
What you will study
Mathematics is one of the most enduring fields of study. As a mathematician you will develop new ideas and proofs and apply your modelling skills with the latest computer technology to solve problems in the physical and biological sciences, engineering, information technology, economics and business. You can study mathematics as part of a dual degree or in combination with another major to excel in the mathematical aspects of your chosen discipline. You will study essential topics in calculus, linear algebra, discrete mathematics and differential equations and then select more specialised courses that emphasise new ideas in mathematics such as coding and cryptography, mathematical physics, mathematical biology, bioinformatics and finance. You can choose to specialise in one or more of Pure Mathematics, Applied Mathematics, Financial Mathematics and Mathematical Physics.

Careers
You will be sought by employers for your excellent quantitative skills and problem solving abilities. You can work in operational research or financial mathematics in banking, finance, insurance and risk management, and in areas such as environmental, physical and biomedical sciences, engineering, defence, teaching, research, animation, or transport and logistics.

Mathematics is also available as an extended major.

SAMPLE COURSES
- Abstract Algebra and Number Theory
- Algebraic Methods of Mathematical Physics
- Coding and Cryptography
- Differential Geometry
- Financial Mathematics
- Functional Analysis
- Graph Theory and Design Theory
- Mathematical Biology
- Numerical Methods in Computational Science
- Operations Research and Mathematical Planning
- Partial Differential Equations

What you will study
Microbiologists study microscopic living organisms such as bacteria, viruses, fungi, algae and protozoa to investigate their impact on all aspects of life. You will discover how well-known diseases caused by microbes involve viruses such as influenza and HIV, bacteria such as meningococcus, Staphylococcus, E. coli, and protozoa such as malaria. You will learn how to apply this knowledge across diverse fields such as medicine, food technology, agriculture and environmental management. During your studies, you will learn from some of the leading microbiologists in education and research in Australia. Your studies will encompass knowledge from the key areas of immunology, virology, parasitology, environmental microbiology, microbial biotechnology and microbial genomics.

Careers
You will find employment in areas such as universities, biotechnology companies, and agricultural, medical and veterinary institutes, the food and beverage industry, hospitals or government agencies in specialist areas such as forensics, biosecurity and quarantine. After graduation, you may choose to enter into additional research-based studies in honours, master’s and Doctor of Philosophy (PhD) programs.

SAMPLE COURSES
- Advanced Immunology
- Biochemistry and Molecular Biology
- Biomedical Parasitology
- Chemical Biology
- CSI UQ: Introduction to Forensic Science
- Fungi and Plant Diseases
- Genes, Cells and Evolution
- Microbes and Human Health
- Microbial Genomics
- Microbiology and Immunology
- Molecular Microbiology
- Virology

What you will study
Physicists study basic natural laws to explain how and why things work on scales from the sub-nuclear to the cosmos. A Physics major allows you to develop a fundamental understanding of a variety of concepts including the nature of time, the origin of the universe and the properties of advanced materials. Your studies in physics will also expose you to interdisciplinary areas such as information technology, nanotechnology, quantum technology and biophotonics. You will participate in research-based theory and experimental projects to develop knowledge of classical and modern physics. You can choose to follow the general stream with electives to prepare you for most areas of physics, including quantum information and quantum optics, condensed matter physics, biophotonics and laser science, or you can specialise in astronomy and astrophysics or mathematical physics.

Careers
You will graduate with skills fundamental to roles within education, finance, engineering, computing, government research and management, science communication, the health and medical sector, or nuclear physics. You may also complete higher-level degrees and work in research and development to increase scientific knowledge. Physics is also available as an extended major.

SAMPLE COURSES
- Advanced Multivariate Calculus and Ordinary Differential Equations
- Computational Physics
- Dynamics, Chaos and Special Relativity
- Electromagnetism and Modern Physics
- Electronics and Circuit Theory
- Extragalactic Astrophysics and Cosmology
- Foundations of Biophysics
- Mechanics and Thermal Physics I
- Quantum Physics
- Statistical Mechanics
- Thermodynamics and Condensed Matter Physics
What you will study
As a plant scientist you will be tackling important global problems including food security, global warming, preserving biodiversity, and dependency on fossil fuels. Your challenge will be to increase global food production to match population growth using sustainable solutions while maintaining biodiversity. During your studies you will be exposed to initiatives including breeding high-yielding, pest-resistant crops, and producing biofuels and biomaterials from plants with the potential to limit carbon emissions. You will explore concepts such as using plants to produce industrial products, biopharmaceuticals and energy (biofuels), new healthier sugars, and anticancer drugs. Supported by cutting edge UQ research, three research centres and excellent links to industry, you can focus on study streams covering Plant Ecology and Sustainability, Plant Biotechnology and Molecular Plant Science, and Plant Pathology.

Careers
You will be in demand by employers such as universities, government departments, research institutes, laboratories, seed companies, mining companies, nurseries, landscape designers and environmental consultants. After graduation, you may choose to continue into further research-based studies in honours, master’s and Doctor of Philosophy (PhD) programs.

SAMPLE COURSES
- Cells to Organisms
- Ecology Field Studies
- Fungi and Plant Diseases
- Genetics
- Global Challenges in Biology
- Plant Biology
- Plant Microbe and Insect Interactions
- Plant Molecular Biology and Biotechnology
- Plants for Human Health

PSYCHOLOGY
What you will study
Psychology is the scientific study of how people behave, think and feel, and examines brain function, memory, conscious experience, lifespan development, social behaviour and functional and dysfunctional behaviour. You will develop analytical skills and understand how to apply the scientific perspective to psychological phenomena. Your courses provide a foundation in all sub-disciplines of psychology, including neuroscience, learning and cognition, developmental psychology, social psychology, and the scientific methods and statistical techniques used in psychological research. You will develop an in-depth understanding of the issues and learn to conduct psychological research and interpret findings.

Careers
Your combination of science and psychology studies provides a competitive edge in professions such as human resources, mental health, counselling and corrective services. With further training you may become a registered psychologist specialising in clinical psychology, health psychology, organisational psychology, or sport and exercise psychology. To gain full registration as a psychologist with the Psychology Board of Australia you should complete a Psychology extended major. After graduation, you may also choose to enter into further research-based studies in honours, master’s and Doctor of Philosophy (PhD) programs.

SAMPLE COURSES
- Developmental Psychology
- Learning and Cognition
- Neuroscience for Psychologists
- Parenting and Family Psychology
- Psychopathology
- Psychotherapy and Counselling
- Sensory Neuroscience
- Social and Organisational Psychology
- The Neuroscience of Social Behaviour

PUBLIC HEALTH
What you will study
Public health professionals focus on preventing disease, prolonging life and promoting health. Your multidisciplinary studies will provide a broad overview of public health to prepare you to explore and examine the basis of disease and wellbeing by considering human behaviour, the physical environment, the socio-economic and cultural determinants of health, and health care management systems. You will study epidemiology, biostatistics, health systems, environmental health and social sciences and develop skills in how to measure, plan, manage and evaluate health programs and services to prevent illness and promote good community health.

Careers
You will find employment in the public health sector, working with government, non-profit or private health-based organisations in either a non-clinical role, clinical role, research role, or working behind the scenes in the business of health. Non-clinical careers include roles in health promotion, community health, health service management or health information in hospitals and other healthcare facilities, community health clinic management, community nutrition, or public health management. This major provides a strong foundation for entry into clinical careers in Medicine or Allied Health or to progress into the Master of Public Health or research via an additional honours year.

SAMPLE COURSES
- Introduction to Public Health
- Health Systems and Policy
- Aboriginal and Torres Strait Islander Health
- Major Diseases and their Control
- Environmental Health
- Global Health and Infectious Disease
- Understanding Health Behaviours
- Nutrition in the Lifespan
STATISTICS

What you will study
Statistics is essential to science, engineering, health sciences, social sciences, economics and marketing and statisticians design, collect, analyse and interpret data to extract patterns and other useful information. As a statistician in industry you may predict stock market fluctuations and insurance claims, model the flow of internet traffic and mobile phone calls, assess drought conditions, population models for endangered species, and model the spread of disease. You will develop a wide range of skills, including probabilistic reasoning and problem solving, statistical modelling and analysis, optimal design of statistical experiments, advanced data exploration and visualisation, application of statistical software, development of statistical algorithms, and report writing and presentation. Summer vacation research projects will give you invaluable practical experience and develop your industry connections.

Careers
You will be in high demand in business, industry and government, working in quality control, and product development and improvement. There are also excellent employment opportunities in many scientific, medical, environmental, defence and agricultural agencies.

You will be eligible for accreditation as a graduate statistician from the Statistical Society of Australia and, with experience, eligible to apply to become an accredited statistician.

SAMPLE COURSES
- Advanced Multivariate Calculus and Ordinary Differential Equations
- Calculus and Linear Algebra I
- Experimental Design
- Probability and Statistics
- Probability Models and Stochastic Processes
- Problems and Applications in Modern Statistics
- Statistical Modelling and Analysis

ZOOLEGNY

What you will study
Zoologists study animals to understand the relationships and interactions of animals with their physical and biological environments, and use modern comparative and experimental approaches to investigate the evolution and diversity of animals. These approaches include investigating animal morphology, development and genetics, behaviour, ecology, physiology, biochemistry and molecular biology. You can take courses in climate change biology, wildlife and conservation biology, entomology, environmental physiology, marine biology, fisheries biology and aquaculture, terrestrial ecology, molecular ecology and mathematical applications in biology. You can also choose to combine the study of animals with biostatistics, ecology, evolution, genetics and insect science.

You will gain practical experience to prepare you to work with animals, with field courses offered to the Australian outback, rainforests, Stradbroke Island and the Great Barrier Reef.

Careers
While it is unusual to find a job advertisement looking for a ‘zoologist’ specifically, you will find a large number of career options, ranging from field-based conservation work to forensics or biomedical research. You may find employment in laboratories, government, national parks, museums, zoos and conservation authorities, with medical laboratories and in education institutions.

SAMPLE COURSES
- Animal Behaviour
- Arthropods and Human Health
- Biostatistics and Experimental Design
- Insect Identification and Taxonomy
- Marine Invertebrates
- Physiological and Integrative Zoology
- Vertebrate Diversity and Evolution
- Zoology

“I love animals, and I had heard about UQ’s reputation for excellent courses related to animal studies. I enjoyed having the opportunity to do field work during my degree. Some of the highlights of my time at UQ included going to Heron Island for a marine science subject and participating in all of the practical components of my studies. This set me up with practical experience as well as the knowledge to gain a job in my chosen profession. I started as a volunteer at SeaWorld while I was completing my studies and secured a casual position there just a few months after graduating.”

Emma Pearce
Bachelor of Science (Zoology)/Bachelor of Arts (Japanese and Geography) Senior Carnivore Keeper Auckland Zoo
Bachelor of Sustainable Agriculture

With the world’s population expected to reach 10 billion by 2050, pressures on global food demand have never been greater. Study Sustainable Agriculture and learn how to provide innovative solutions for the production of food and fibre to feed and clothe the world.

Why Sustainable Agriculture at UQ?
Acquire the scientific and managerial principles to help farmers increase their output of food and fibre with the least environmental and social impact. You will support industry to tackle some of the big problems facing our planet. With UQ ranked as the top agriculture university in Australia, you will access leading researchers, industry practices and exceptional agricultural teaching facilities.

What you will study
Choose to major in agronomy, horticulture or livestock and poultry science. You will access the 1068-hectare working farm at UQ’s Gatton campus and benefit from Australia’s most extensive agricultural research program with links to local, national and global growers, producers and industry.

Majors

Agronomy
Learn to manage agricultural practices and the environment to maximise productivity and sustainability in crop production. You will work to enhance the production of food, create healthier food, investigate plants as a future energy source and manage the environmental impacts of agriculture. Combine your study of biological, chemical, ecological and earth sciences or genetics to examine variables such as crop rotation, crop nutrition, plant breeding, crop physiology, soil management and the control of weeds, insects and other pests to manage the whole plant and crop production cycle.

Horticulture
Examine the intensive production of fruit, vegetable and floricultural crops, using a combination of conventional, sustainable and organic practices. As a horticulturist, you will improve plant yield, quality, nutritional value and resistance to insects, diseases and environmental stresses through scientific techniques in plant breeding, biochemistry, physiology and propagation.

Livestock and Poultry Science
Develop an understanding of the science that underpins sustainable (environmental, social and financial) and humane production of animals for food and fibre. You will use the latest technologies in disease control, animal management, animal-environment interactions and product quality, to ensure sustainable animal production and apply business principles through industry placements to ensure the profitable and sustainable management of livestock and poultry.

Dual program
Study the Bachelor of Sustainable Agriculture as a dual degree with the Bachelor of Agribusiness and combine practical business skills with your interests in sustainable agriculture.

Placements and practical experience
If eligible, you can choose to undertake an industry placement elective during your summer semester.

Get additional skills
Broaden your skills by concurrently enrolling in the Certificate III in Rural Operations or the Farm Ready program through UQ Skills (details available at bit.ly/uq-skills-courses).

Careers
You will find employment in government departments; research institutions and universities; agricultural service companies, banks, seed companies, food producers and agricultural consultancies; small- or large-scale organisations involved in production, post-harvest and marketing of horticultural products; biosecurity, extension and animal production enterprises; allied industries such as feed milling, stock equipment manufacturers, and livestock and poultry health companies.

SAMPLE COURSES

Agronomy
Agronomy
Crop Physiology
Land Use and Management
Plant Production Principles and Technologies

Horticulture
Horticultural Science
Production Horticulture
Plant Breeding
Plant Physiology

Livestock and poultry science
Animal Anatomy and Physiology
Animal Breeding and Genetics
Animal Health and Epidemiology
Animal Nutrition

For more information future-students.uq.edu.au science.uq.edu.au/planner

UQ is the top-ranked university for agriculture in Australia
2018 Performance Ranking of Scientific Papers for World Universities
Bachelor of Veterinary Science (Honours)

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

Why Veterinary Science (Honours) at UQ?
Gain the foundational knowledge and practical skills to apply medical, diagnostic and therapeutic principles to companion, domestic, exotic, wildlife and production animals. Developed in consultation with the profession, this program incorporates the latest research developments, coursework and placements to ensure you receive the most relevant, up-to-date knowledge and expertise to prepare you as a veterinary professional.

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 commence with foundational training in the anatomy, physiology, biochemistry, nutrition and behaviour of healthy domestic and wild animals. Your first three years will include over 600 hours of clinical and laboratory practical training and you will 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, population and public health training and complete 130 hours of clinical practical work. The final fifth year is clinically oriented with over 1400 hours of lecture-free training within university and privately owned practices. Throughout the program you will develop your skills in essential clinical and 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.

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

SAMPLE COURSES

<table>
<thead>
<tr>
<th>PRAC ACTIVITY</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-clinical extramural studies**</td>
<td>480 hours</td>
</tr>
<tr>
<td>Clinical extramural studies</td>
<td>400 hours</td>
</tr>
<tr>
<td>Fourth year clinical practical work</td>
<td>130 hours</td>
</tr>
<tr>
<td>Fifth year clinics</td>
<td>1480 hours</td>
</tr>
<tr>
<td>Practicals years 1-3</td>
<td>612 hours</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>3102 hours</td>
</tr>
</tbody>
</table>

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

For more information
future-students.uq.edu.au
science.uq.edu.au/planner
Bachelor of Veterinary Technology

Equip yourself with the theoretical and practical skills to become a para-veterinary healthcare specialist, working in animal health and welfare.

Why Veterinary Technology at UQ?
Learn from internationally regarded academics while accessing 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, and well prepared for supervisory and management roles in a range of animal-related fields.

What you will study
Study animal handling and care, welfare and behaviour, applied and clinical nutrition, mechanisms of animal disease and diagnostic techniques, clinical aspects of small and large animal health, veterinary pharmacology and therapeutics, veterinary surgical and medical nursing principles, and veterinary practice management.

As you progress through the program, you can choose from a wide range of elective courses to broaden or focus your skills or to pursue an area of interest.

Dual program
Study the Bachelor of Veterinary Technology as a dual degree with the Bachelor of Agribusiness and combine practical business skills with your interests in veterinary technology.

Placements and practical experience
In your first and second years, you will gain at least 80 hours of practical sessions and extramural studies* of 30 days. In your third year, you will complete a total of 19 weeks on clinical rotation and placement. 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.

Get additional skills
Broaden your skills by concurrently enrolling in the Certificate IV in Veterinary Nursing, the UQ Skills Certificate III in Rural Operations or the Farm Ready program through UQ Skills (details available at bit.ly/uq-skills-courses).

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

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

SAMPLE COURSES
Agricultural Biochemistry  
Applied Animal Physiology  
Animal Behaviour, Handling and Wellbeing  
Animal Health Technology  
Animal Nutrition  
Animal Pathogens and Immunity  
Applied Mathematics and Statistics  
Large Animal Health and Management  
Preparation for Professional Practice  
Professional Studies for Veterinary Technology  
Small Animal Health  
Surgical Principles and Practices  
Recommended Electives  
Equine Exercise and Rehabilitation  
Dogs, Cats and Other Pets  
Mechanisms of Animal Disease  
Molecular and Quantitative Genetics  
Veterinary Laboratory Diagnostics  
Veterinary Technologists

For more information
future-students.uq.edu.au  
science.uq.edu.au/planner
Bachelor of Wildlife Science

Build expertise in animal biology and the conservation and management of wild animals. Study native and exotic amphibians, reptiles, birds and mammals, biodiversity and human-wildlife interactions.

Why Wildlife Science at UQ?
This hands-on degree focuses on animal biology and the management of wild animals. As one of the world’s top universities, UQ is a leader in this field with the best specialist animal research and veterinary facilities in the southern hemisphere. You will study with UQ Gatton’s wildlife scientists, who are involved in the conservation and management of free-ranging and captive wildlife as well as rare or exotic animals in Australia and overseas. You will learn from biologists as they focus on wildlife anatomy and physiology, captive breeding, reproduction, nutrition, health, husbandry, ecology, welfare and behaviour. As part of your degree, you will also gain hands-on wildlife experience in UQ’s wildlife research facilities.

What you will study
You will gain the expertise 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. With excellent wildlife trapping, identification and animal handling skills, you will be able to make a major contribution to the wildlife, game and vertebrate pest management industries in Australia. As you progress through the program, you can choose from a range of electives to broaden or focus your knowledge or pursue an area of interest. You will study ‘Game Management – the Science of Sustainable Use’, not taught in any other Australian university.

Study this program either internally on campus, or off campus in external mode. Where necessary, the practical components for external students may be completed during intensive on-campus residential schools. Note that the external mode is not available to international students studying in Australia on a student visa.

Dual program
You can study the Bachelor of Wildlife Science as a dual degree with the Bachelor of Agribusiness. The dual four-year program allows you to combine practical business skills with your interests in wildlife science.

placements and practical experience
You will have the opportunity to spend nearly a month overseas, typically in South Africa, in one of your elective courses ‘Short International Experience’, studying natural resource management. You will also have the opportunity to participate in a minimum of 120 hours of industry programs in locations such as 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.

Get additional skills
You can also broaden your skill set by concurrently enrolling in the Certificate IV in Captive Animals, the UQ Skills Certificate III in Rural Operations or the Farm Ready program through UQ Skills (details available at bit.ly/uq-skills-courses).

Careers
You will find employment in research, managerial and educator roles, including as a biologist or wildlife scientist; wildlife technician; conservation officer in ecotourism; land manager or marine resource organisations; vertebrate pest and game management; government agencies or wildlife sanctuaries and zoos. You can also choose to pursue a research career by undertaking a research honours year which could lead to postgraduate studies.

Sample courses
- Animal Health and Epidemiology
- Animal Behaviour: Handling and Wellbeing
- Australian Terrestrial Vertebrates
- Biology of Australian Marsupials and Monotremes
- Elements of Ecology
- Game Management – The Science of Sustainable Use
- Principles of Wildlife Management
- Wildlife Technologies
- The Management and Husbandry of Zoo Animals

For more information
future-students.uq.edu.au
science.uq.edu.au/planner
Food and retail
You can buy food and drinks from the Coffee Pod, Dining Hall and Walkway Café, and you can purchase and sell books at our retail bookshop. There’s an on-campus ATM and a post office, and keep an eye out for the regular events for students in the Central Walkway.

Green thumbs
The campus farms house animals, horticultural fields, a plant nursery, post-harvest facilities, research laboratories and greenhouses. Grow your own herbs and vegetables in the campus Community Garden.

Fitness
UQ Gatton’s gym has a weights room, cardio equipment and offers group fitness classes every week. Swim in the 25-metre pool or grab a friend and head to the squash, tennis and basketball courts, cricket nets, indoor sports hall or one of three playing fields.

Student Societies
Join a student society and make new friends at the international food fair, or join a tour to one of the local landmarks.

Library
UQ Gatton’s recently refurbished library provides computers, break-out spaces, quiet individual study spaces, height-adjustable desks, meeting rooms, a postgraduate study area, and a 24-hour study space.

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

For accommodation information, see page 40.

future-students.uq.edu.au/campuses
UQ St Lucia

UQ's St Lucia campus is renowned as one of Australia’s most attractive campuses, just seven kilometres from Brisbane’s CBD. Bounded by the Brisbane River on three sides, UQ St Lucia offers a perfect study, research and living environment, combining the vitality of a modern campus with the tradition of an established university.

The campus has expansive landscaped grounds, fanning out from a heritage-listed sandstone cloister that encloses the iconic centrepiece of the campus, the Great Court.

You will find world-class teaching and research facilities at UQ St Lucia, including Queensland’s largest research library plus fully equipped laboratories and lecture theatres. The campus caters to all study and living needs, including excellent sporting venues, museums, art galleries, shops, a post office, restaurants and refectories. UQ St Lucia is also a great place to relax and enjoy university life with market days, bands and sporting events, or join one of the 140 clubs and societies.

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

- Australian Institute for Bioengineering and Nanotechnology
- Global Change Institute
- Institute for Molecular Bioscience
- Institute for Social Science Research
- Mater Research Institute–UQ
- Queensland Alliance for Agriculture and Food Innovation
- Queensland Brain Institute
- Sustainable Minerals Institute.

UQ Herston

Just three kilometres from the Brisbane CBD, UQ Herston is the specialist campus for health and medical teaching and research.

Sharing premises with the Royal Brisbane Hospital, Women’s Hospital and the QIMR Berghofer Medical Research Institute, UQ Herston houses a vibrant clinical and research community who deliver innovative and contemporary research and education programs in a clinical academic environment.

Its proximity to a major hospital benefits students and staff and demonstrates UQ’s commitment to working within a clinical academic environment.

Major research institutes on campus include the UQ Centre for Clinical Research, along with other key facilities such as the Oral Health Centre, Australia’s largest and most advanced specialist oral health service, and the purpose-built Herston Imaging Research Facility.

Surgical, Treatment and Rehabilitation Service (STARS)

Currently under construction, STARS will be one of the largest tertiary specialist rehabilitation centres in the southern hemisphere, accommodating about 100 nursing and allied health students from 2020.

Student lifestyle

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

Travel options to UQ campuses

<table>
<thead>
<tr>
<th>UQ St Lucia</th>
<th>UQ Gatton</th>
<th>UQ Herston</th>
</tr>
</thead>
<tbody>
<tr>
<td>7km from the CBD</td>
<td>5km from Gatton CBD</td>
<td>5km from the CBD</td>
</tr>
<tr>
<td>10+ direct bus routes</td>
<td>One arrives every 2 mins at the UQ Lakes bus stop</td>
<td></td>
</tr>
<tr>
<td>2 mins to Inner Northern busway from the CBD</td>
<td>4+ inter-campus buses daily</td>
<td></td>
</tr>
<tr>
<td>3+ train stations within 2km</td>
<td>Rail-bus service runs between Brisbane and Gatton</td>
<td></td>
</tr>
<tr>
<td>15 mins between each ferry</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

St Lucia sporting facilities include 30 sporting spaces, two heated pools, an Olympic standard athletics track and a three-level weights and cardio gym.
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).

If you’re an Australian or New Zealand citizen, or an Australian permanent resident 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 Amenities Fee (SSAF). You will need to apply for a tax file number at ato.gov.au, if you don’t already have one, in order to obtain a HECS-HELP or SA-HELP loan.

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 at above right).

Fees are charged according to the courses you choose, not the program you’re enrolled in, so it’s not possible to publish a 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 the fee band level of the courses you choose (see table at above right).

Commonwealth-supported fee bands

<table>
<thead>
<tr>
<th>BAND</th>
<th>AREA OF STUDY</th>
<th>ANNUAL STUDENT CONTRIBUTION*</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Law, accounting, administration, economics, commerce, dentistry, medicine, veterinary science</td>
<td>$10,958</td>
</tr>
<tr>
<td>2</td>
<td>Mathematics, statistics, computing, built environment, allied health, other health, science, engineering, surveying, agriculture</td>
<td>$9,559</td>
</tr>
<tr>
<td>1</td>
<td>Humanities, behavioural science, social studies, education, foreign languages, visual and performing arts, nursing, clinical psychology</td>
<td>$6,566</td>
</tr>
</tbody>
</table>

*2019 figures only, based on a full-time (16 unit) workload; figures indexed annually

Weekly cost of living

<table>
<thead>
<tr>
<th>Service</th>
<th>On-campus college</th>
<th>Off-campus commercial private provider</th>
<th>Off-campus share house</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rent</td>
<td>$450–$700</td>
<td>$180–$520</td>
<td>$130–$250</td>
</tr>
<tr>
<td>Utilities – including gas, electricity and water</td>
<td>included in rent</td>
<td>most included in rent – check with individual provider</td>
<td>$10–$20</td>
</tr>
<tr>
<td>Food</td>
<td>included in rent</td>
<td>$100–$125</td>
<td>$100–$125</td>
</tr>
<tr>
<td>Mobile phone</td>
<td>$20–30</td>
<td>$20–30</td>
<td>$20–$30</td>
</tr>
<tr>
<td>Internet</td>
<td>included in rent</td>
<td>most included in rent</td>
<td>$5</td>
</tr>
<tr>
<td>Public transport</td>
<td>$10</td>
<td>$20–$35</td>
<td>$20–$35</td>
</tr>
</tbody>
</table>

Keeping your costs down

- Investigate the financial support and fee payment options offered by Centrelink.
  humanservices.gov.au
- Explore the scholarships on offer (see page 4).
- Enjoy UQ Union’s free and low-cost entertainment and activities, such as Morning Marmalade and Kampus Kitchen.
  uqu.com.au
- Get concessions and student discounts at participating retailers and institutions with your UQ student card.

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

UQ levies the SSAF – which is capped at a maximum of $303 for 2019 – according to whether you’re an internal or external student, and full-time or part-time. The fee is indexed annually.

bit.ly/uq_ssa

Plan your finances
University is a valuable investment in your future. Knowing what it costs will help you manage your money.
A home away from home

Finding a great place to live will enhance your UQ experience.

Guaranteed accommodation
UQ guaranteed accommodation helps you to secure your accommodation before you arrive in Brisbane. Our accommodation providers reserve a guaranteed number of rooms so you can easily compare, choose and apply for the best accommodation for you. Rooms are available in on-campus residential colleges and through off-campus UQ approved providers.

Guaranteed accommodation is available to students commencing in Semester 1 or Semester 2.

my.uq.edu.au/guaranteed-accommodation

On campus – residential colleges
UQ's on-campus accommodation includes 10 residential colleges at St Lucia campus and Halls of Residence at Gatton campus that are home to more than 3000 students from Australia and overseas.

Aside from the convenience of having every university facility and service only minutes away, there are other great advantages to living at a residential college, including:

• fully, part or self-catered accommodation
• supportive staff available 24/7
• safe and secure premises
• academic tutorial programs and peer group support
• strong, lifelong college and professional networks
• community service opportunities
• active sporting, cultural and social life
• college scholarships, prizes and bursaries
• inter-college activities
• lasting friendships.

LiveUQ
Visit the LiveUQ website to find out costs and how to apply to colleges.
liveuq.edu.au

Top tips for house-hunting

• Always inspect the property in person before you sign anything or pay any money.
• Take some time to consider a few different suburbs, because prices, size and quality may vary with location.

Want to experience college life, without living on campus?

Through the Colleges’ Associate Membership Program you can enjoy the academic, networking, mentoring and social benefits of college life even if you’re not at a college.
liveuq.edu.au

Off campus – UQ approved providers
UQ-approved accommodation providers deliver high-quality services and residences with a focus on enhancing the student experience.

You can expect the following from a UQ approved provider:

• different room options including studios, shared apartments or twin share,
• the ability to pre-book a room before you leave home,
• easy transport options to campus,
• social engagement programs, and
• the opportunity to meet residents from other universities, not just from UQ.

UQ approved providers
• Altitude at Taringa
• Atira
• Genesis 1
• Iglu
• Raymont Residential College
• Scape
• Student One
• Study Lounge
• UniLodge
• Urbanest

my.uq.edu.au/student-support/accommodation/approved-providers

Off campus – private rentals
A private rental is a great option if you have had experience renting, or if you wish to live fully independently. Allow at least a month before classes start to get organised, arrange inspections, and apply for rental properties.

To learn more about your public transport options to get to UQ, see page 38.

UQ Rentals
On UQ Rentals, you can:

• access hundreds of shared and vacant property listings, and
• filter by price and locations.
uqrentals.com.au

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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 Queensland rank 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 the Foundation Year bridging course offered by International Education Services (IES) or English language training offered by the Institute of Continuing and TESOL Education (ICTE).

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.

future-students.uq.edu.au/apply

Study options at UQ
If you would like to know more about your study options at UQ, enquire through our online form and one of our UQ advisers will respond.

Register for an advisory session.
If you are in Brisbane, sign up for a campus tour.
We also have a range of publications, including the international undergraduate and postgraduate student guides to help you.

Ask UQ
future-students.uq.edu.au/ask

Advisory sessions
future-students.uq.edu.au/book-advisory-session

Campus tours
future-students.uq.edu.au/campus-tours

International student guides
future-students.uq.edu.au/publications-and-forms

UQ has more than 15,400 international students from 135 countries

“Studying at an international university can be challenging and you may be worried, like I was, about handling the transition but please be assured your lecturers, tutors and peers are always there to help.”

Grace Loo
Bachelor of Veterinary Science

Tuition fees
As an international student, you will pay tuition fees, a Student Services and Amenities Fee, and potentially other administrative 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, such as field trips.

future-students.uq.edu.au/apply/international/tuition-fees

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, tuition fees, general living expenses, return airfares, and Overseas Student Health Cover (OSHC) when you plan your budget.

future-students.uq.edu.au/international/cost-living
Applying to UQ

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

**STEP 1**
Choose

Choose your program
- Read your options on pages 9–36.
- Visit future-students.uq.edu.au.

TIP: Check that you meet all academic and other entry requirements and meet any specific program deadlines.

A range of study area guides and other UQ publications can help you choose the right program.
future-students.uq.edu.au/publications-and-forms

**STEP 2**
Apply

Apply to study
Future students
Apply by visiting qtac.edu.au.

Current students at other universities
Apply by visiting uq.edu.au/apply.

TIP: Before applying, check that your current institution will give you transferable credit.

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

List up to six program preferences, but you will receive only one offer – for your highest preference that you are eligible for. Place programs in order of preference, placing your dream program first and your back-up options next.

**STEP 3**
Accept

Accept your offer
1. Log in by clicking ‘Applications’ and then ‘Application Log In’ at qtac.edu.au.
2. Select ‘Log In’ and enter your details.
3. Select the ‘Accept’ offer option.
4. Accept your offer.
5. Activate your student account.
6. Go to my.uq.edu.au/starting-at-uq and follow the instructions.
7. Get excited about starting at UQ.
**Enrol in courses**
1. Access your program rules, course list and other helpful information by logging in to my.uq.edu.au/starting-at-uq.
2. Choose your courses at my.uq.edu.au/programs-courses.
3. Enrol online at sinet.uq.edu.au.
4. Plan your timetable and sign on to classes.
5. Pay fees (see page 39).

**Prepare for Week 1**
- Complete the steps on the Starting at UQ website, or download the UQ Checklist app to get organised. my.uq.edu.au/mobile-apps.
- Attend a Getting Started session.
- Check if you need to attend any program sessions before Orientation Week.
- Pick up your student ID card after you have enrolled.
- Get answers to any remaining questions before classes start by emailing starting@uq.edu.au.

**Get ready for the ultimate university experience**
- Prep Week – jump-start your university journey.
- Experience a taste of #uqlife during Orientation Week.
- Connect Week – join the social scene, make new friends and link in with your academic circle.
- Culture Week – experience UQ’s diverse cultural and global networks.
- Success Week – learn about the resources available to help you succeed at UQ.
- Instagram (@uniofqld) or Snapchat (uniofqld) your UQ experience to your friends.

**STEP 4**
Enrol

**STEP 5**
Prepare

**STEP 6**
Let’s go!

**Are you an Aboriginal or Torres Strait Islander student?**
Our Aboriginal and Torres Strait Islander Studies Unit can help you with:
- understanding your options
- choosing what to study
- applying for scholarships and entry.
atsis.uq.edu.au
Got questions?
We’ve got the answers.

Want to find out what life as a UQ student is like?
The best way to get a taste of life as a UQ student is to visit us. UQ’s St Lucia Shuttle Cart Tours are a fun and interactive way to immerse yourself in our welcoming student community. For more details on UQ’s tour offerings, visit:
future-students.uq.edu.au/campus-tours

Want to meet our staff at events?
TSXPO
Attend the free Tertiary Studies Expo (TSXPO) to speak with UQ staff and students about programs and courses available at UQ. Saturday 20 July and Sunday 21 July 2019
future-students.uq.edu.au/tsxpo

OP Results Advice
Every OP unlocks an opportunity – meet with our friendly staff to discover your study options after finding out your OP. Monday 16 December 2019
future-students.uq.edu.au/op-results-advice

Want to experience UQ at school?
Enhanced Studies Program
Want to try out uni before committing? UQ’s Enhanced Studies Program lets you complete a university course during Semester 1 of Year 12. The program is free, boosts your entry rank by one point, and you may receive credit if you go on to study at UQ. Some courses are available externally or via flexible delivery.
esp.uq.edu.au

InspireU
InspireU is a series of residential camps for Aboriginal and Torres Strait Islander students in Years 9–12. InspireU students stay on campus to experience university life, participate in workshops and lectures, and explore different disciplines and career opportunities.
atsis.uq.edu.au/future-students/inspireu-programs

Young Scholars Program
Are you a high-achieving Year 11 student? Apply for our Young Scholars Program to meet UQ’s academic community and mix with high achievers from across Australia. The program includes a residential camp at the end of Year 11.
young-scholars.uq.edu.au

Workshops for schools
Visiting school groups can practise archaeological field methods, build a robot, work in a lab, get a fitness test, or learn how to develop apps in our on-campus workshops.
uc.edu.au/high-schools/activities-and- workshops-students

Improve your languages while still at school
Practise your language skills with native speakers at our summer or winter intensive sessions at UQ’s Institute of Modern Languages. Designed for Year 11 or Year 12 students, get a jump on the year ahead.
iml.uq.edu.au/iml-uq-high-school-program

FEAST
Future Experiences in Agriculture, Science and Technology (FEAST) is a five-day residential program to inspire high school students about rewarding science careers in the agriculture, animal, plant and food industries. It’s open to students in Years 11 and 12 and is held each July at UQ Gatton.
sience.uq.edu.au/event/feast

Be sure to share your UQ campus tour experience
@uniofqld
#uq

Want more info?
With the world at your feet and so many options to explore, starting university can feel overwhelming. Take advantage of all the resources available to help you make the right decision for you.

Answer your questions
The Future Students Contact Centre (FSCC) can advise on programs, entry requirements and application procedures. Consider the FSCC your first point of contact.
future-students.uq.edu.au/ask

Online resources
Visit UQ’s Future Students website to view programs and courses; find out how to apply and what entry requirements you need; check tuition fees, program outlines, how long programs will take and career outcomes. You can also discover a range of information about life as a UQ student.
future-students.uq.edu.au

Visit our campus
Visit UQ to see what our campuses have to offer. Prospective students can book a shuttle cart tour of UQ St Lucia or a guided tour of UQ Gatton. You can even take in the sights at your own pace with UQ’s St Lucia Campus Self-Guided Tour. Details on where to collect your free map can be found at:
future-students.uq.edu.au/st-lucia-walking-tour

Didn’t get the OP you were expecting?
Bridging programs and entry options
For more information about approved bridging programs, and other entry methods contact UQ Admissions on admissions@uq.edu.au or visit:
future-students.uq.edu.au/apply/undergraduate/admission-pathways
Study options

UQ offers more than 80 exciting undergraduate programs and 60 dual programs to help build your dream career. For more details, check out our range of publications, or go to future-students.uq.edu.au

**Arts, Humanities, Social Sciences and Education**
- Advanced Humanities (Honours)
- Arts
- Communication
- Criminology and Criminal Justice (Honours)
- 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)
- Business Management
- Commerce
- Economics
- International Hotel and Tourism Management
- Laws (Honours)
- Politics, Philosophy and Economics (Honours)

**Engineering and Computing**
- Architecture and Planning
- Architectural Design
- Chemical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Information Technology
- Mechanical Engineering
- Mechatronics Engineering
- Mining Engineering
- Regional and Town Planning
- Software Engineering

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

**Science, Mathematics, Agriculture and Environment**
- Advanced Science
- Agribusiness
- Agricultural Science
- Biomedical Science
- Biotechnology
- Environmental Management
- Environmental Science
- Equine Science
- Food Technology
- Mathematics
- Occupational Health and Safety Science
- Science
- Sustainable Agriculture
- Veterinary Science
- Veterinary Technology
- Wildlife Science

**Central guides**
- Australian Undergraduate (pictured left)
- International Undergraduate and Postgraduate (international students can visit future-students.uq.edu.au/publications-and-forms/international to access the latest international student guides)

Copies of these publications are available through UQ Admissions.

+61 7 3365 2203
admissions@uq.edu.au
future-students.uq.edu.au
Have a question about programs in this Guide?

 Faculty of Science – St Lucia campus
 +61 7 3365 1888
 enquire@science.uq.edu.au
 science.uq.edu.au

 Faculty of Science – Gatton campus
 +61 7 5460 1276
 enquire@science.uq.edu.au
 science.uq.edu.au

Have a question about living and studying at UQ?

 Contact the Future Students Contact Centre
 +61 7 3346 9872
 ask@uq.edu.au
 future-students.uq.edu.au

Have a question about entry requirements and admission to UQ?

 Contact UQ Admissions
 +61 7 3365 2203
 admissions@uq.edu.au
 asd.uq.edu.au/admissions

Key dates

 Tertiary Studies Expo (TSXPO)
 RNA Showgrounds
 Saturday and Sunday 20–21 July 2019

 UQ Open Day 2019
 St Lucia campus Sunday 4 August 2019
 Gatton campus Sunday 18 August 2019

 QTAC closing date
 For on-time applications
 Thursday 26 September 2019
 (check qtc.edu.au for details)

 Semester 1, 2020
 Classes commence
 Monday 24 February 2020

 CRICOS Provider Number 00025B

Disclaimer

The inclusion in this publication of details of a program or a course creates no obligation on the part of the University to teach it as or when described. The University may discontinue or vary programs and courses at any time without notice. Information in this guide is accurate as at January 2019.

While care has been taken to provide accurate information in this prospectus, it is the responsibility of students to check and confirm the specific details of programs, courses and enrolment.

In the event of any conflict arising from information contained in this publication, the material approved by The University of Queensland Senate shall prevail.

Visit future-students.uq.edu.au for up-to-date program information.

All costs and fees quoted in this publication are in Australian dollars (AUS).

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Australian Consumer Protection
australia.gov.au