

Explore careers in science, mathematics, agriculture and the environment



Science is transforming the future. Be part of it.

From harnessing the power of data to developing life-saving medical treatments, science offers endless opportunities to shape our future.

At UQ, you'll gain the knowledge and skills needed to thrive in this rapidly evolving landscape. Are you passionate about improving sustainability in global food production, addressing environmental issues or innovating new products or technologies? UQ can help you turn your curiosity into a rewarding career. Discover how you can be part of tackling global challenges.

CHOOSING A CAREER

Follow these steps to find your dream career:



Define your interests

Think about the subjects you enjoy at school as well as your hobbies and interests outside of class.



Match your interests to careers

Use the career charts on the next pages to find careers that align with your interests. Look for UQ programs that fit with what you like.



Do your research

Take the time to talk to your teachers and school guidance officers, and attend a university Open Day to ask questions of real life scientists and lecturers.

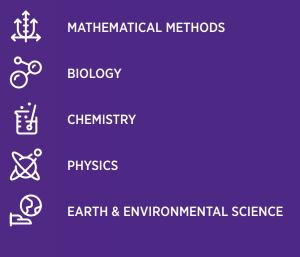
LEARN TO THINK LIKE A SCIENTIST

As the job market evolves, so do the skills required to succeed. Studying science at UQ equips you with the skills that employers value most, such as:

- Analytical skills: Develop critical thinking, data analysis, and financial literacy.
- **Problem-solving abilities:** Enhance your creative thinking and experimental design skills.
- **Communication skills:** Improve your writing, speaking, and programming abilities.
- Entrepreneurship and innovation: Learn to think outside the box and bring new ideas to life.

YEAR 11 AND 12 SUBJECT SELECTION

Planning your senior year subjects? Choose wisely to set yourself up for a successful career in science! Here are the essential subjects to consider:



Every degree at UQ requires Year 12 English (or equivalent).



To check the specific pre-requisite subjects required for your preferred science program, visit study.uq.edu.au

Science grads reveal how UQ shaped their careers...



Jamie Pollen

Head Agronomist and Production Manager, Queensland Berries

"Demand is high for agricultural scientists who can find sustainable solutions to the complex challenges of food security and nutritional value [...]. The skills I developed during my time at UQ have equipped me to assess and manage complex challenges, thrive in fastpaced work environments, lead informed decisionmaking, and be recognised for my strong problemsolving skills and critical thinking capabilities."

Paul Gibson

Investigator (Boating and Fisheries Patrol), Queensland Government Department of Agriculture and Fisheries

"I undertook a Bachelor of Science at UQ to academically pursue my interest and passion in sustainable fisheries because it was the best rated Brisbane university for sciences. [...] My most memorable experiences were the extended field trips to Fraser Island, inland Queensland and UQ's research station on Heron Island."





Giselle Pickering

Scientist (Water Planning Ecology), Queensland Department of Environment and Science

"Studying geographical science at UQ allowed me to explore many different perspectives and techniques for approaching challenges related to people, place and environment. [...] My GIS expertise is particularly useful in my role since mapping and spatial analysis is highly integrated with the ecological assessments and research that I conduct at work."



My degree options

• Problem solving

Animals, plants, food and business

Animal health

Environment

- Connecting people and technology
- Economics and business
- Understanding consumer behaviour
- International relations
- Protecting the environment
- Marketing and advertising

Bachelor of Agribusiness

Bachelor of Agricultural Science Majors in Agronomy, Animal Science, Horticulture

Bachelor of Biotechnology Major in Agricultural Biotechnology

Bachelor of Science or Bachelor of Advanced Science (Honours) Majors in Food Science and Nutrition, Food Technology

- Helping sick animals
- Working in fast-paced environments
- Observing and recording
- Protecting wildlife
- Fieldwork
- Problem solving
- Teamwork

Bachelor of Veterinary Science (Honours)

Bachelor of Veterinary Technology

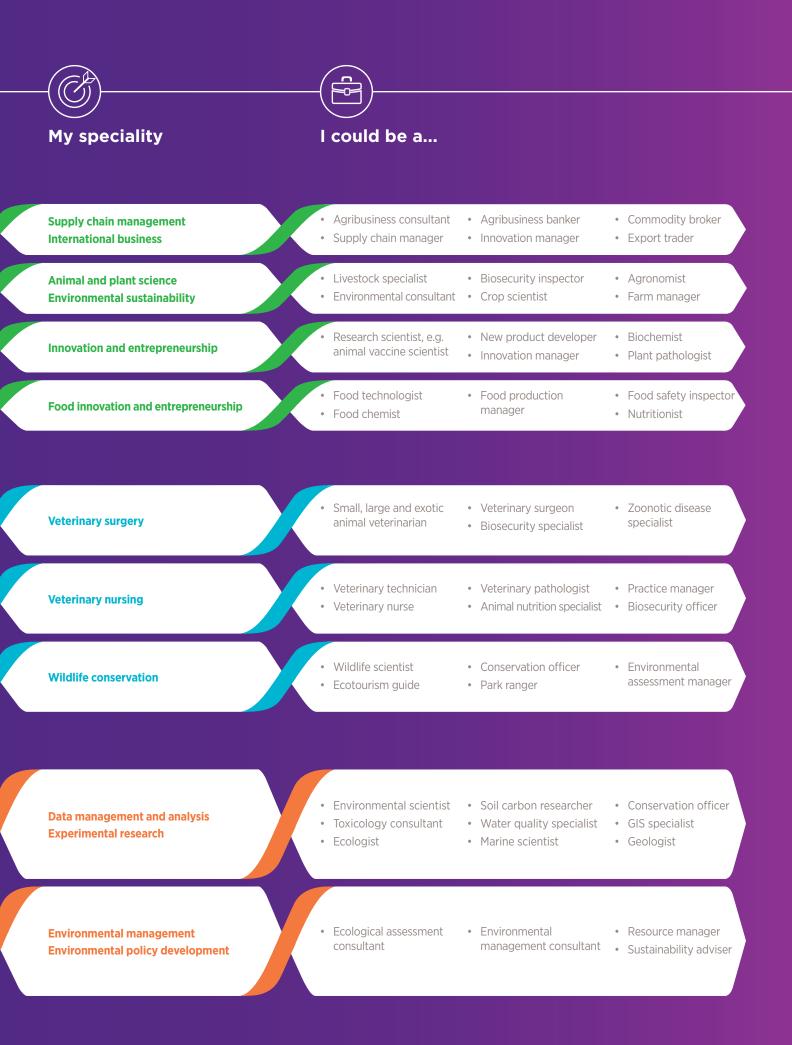
Bachelor of Wildlife Science

- Protecting the environment
- Working outdoors
- Analysing data to find solutions
- Managing projects
- Problem solving
- Educating others
- Attention to detail

Bachelor of Environmental Science

Bachelor of Science or Bachelor of Advanced Science (Honours) Majors in Coastal and Ocean Science, Earth Science, Ecology and Conservation Biology, Geographical Science, Marine Biology, Plant Science, Zoology

Bachelor of Environmental Management (Honours)





My degree options

- Developing innovative products
- Biology
- Chemistry
- Experiments
- Analysing data
- Attention to detail
- Problem solving

Bachelor of Biotechnology

Majors in Chemical and Nano Biotechnology, Medical Biotechnology, Molecular and Microbial Biotechnology, Synthetic Biology and Industrial Biotechnology

Bachelor of Science or Bachelor of Advanced Science (Honours) Majors in Biochemistry and Molecular Biology; Biomedical Science;

Cell Biology; Chemistry; Genetics; Microbiology; Microbiology, Infection and Immunity; Psychology; Public Health

- Logical thinking
- Numbers and data
- Coding
- Problem solving
- Analysing and interpreting data
- Spotting trends and patterns
- Attention to detail

Bachelor of Mathematics Majors in Applied Mathematics, Pure Mathematics

Bachelor of Mathematics Majors in Data Analytics and Operations Research, Statistics

Bachelor of Science or Bachelor of Advanced Science (Honours) Majors in Applied Mathematics, Bioinformatics, Computer Science, Mathematics, Statistics

Designing experiments

- Developing ideas for disruptive technology
- Creativity and inventiveness
- Coding
- All things space
- Logical thinking
- Problem solving

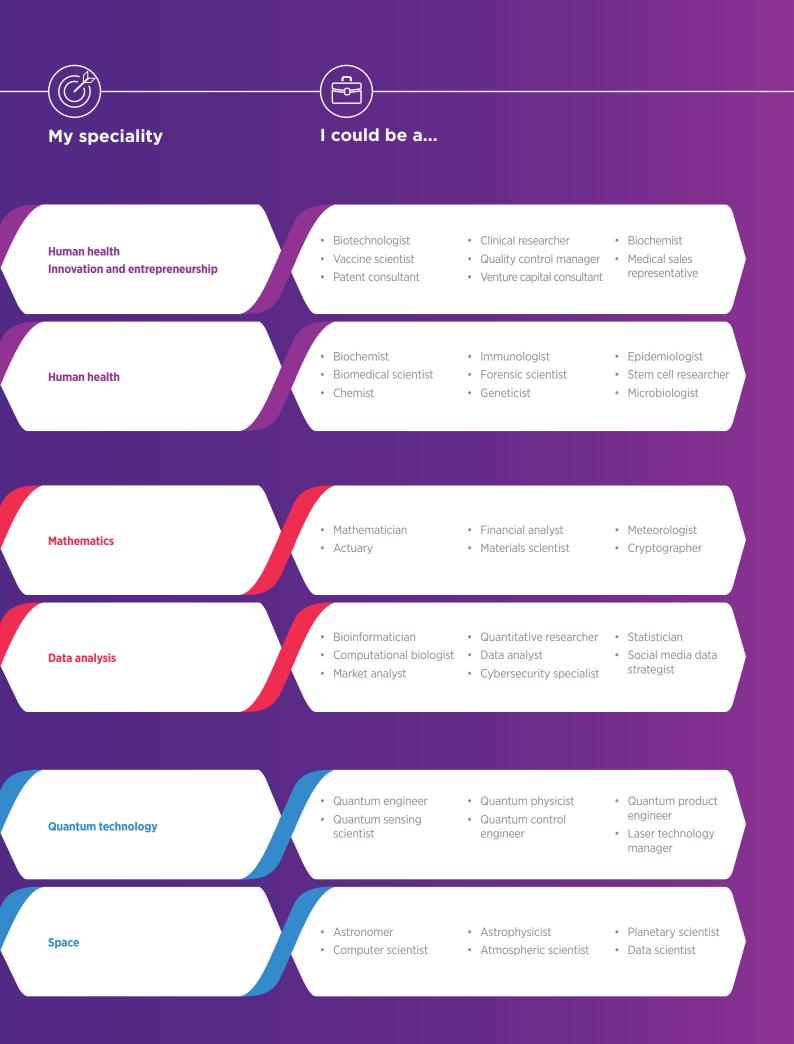
Bachelor of Mathematics Major in Mathematical Physics

Bachelor of Science or Bachelor of Advanced Science (Honours) Majors in Applied Mathematics, Biochemistry and Molecular Biology, Chemistry, Computer Science, Earth Science, Mathematics, Physics, Statistics

Bachelor of Science or Bachelor of Advanced Science (Honours) Majors in Applied Mathematics, Biochemistry and Molecular Biology,

Chemistry, Computer Science, Earth Science, Mathematics, Physics, Statistics

Human health



Study options



Bachelor of Agribusiness

Duration: 3 years full-time **Entry requirements:** Queensland Year 12 or equivalent English; General Mathematics or Mathematical Methods



Bachelor of Agricultural Science Duration: 3 years full-time

Entry requirements: Queensland Year 12 or equivalent English; General Mathematics or Mathematical Methods



Bachelor of Biotechnology

Duration: 3 years full-time **Entry requirements:** Queensland Year 12 or equivalent English; Mathematical Methods; plus one of Biology, Chemistry or Physics



Bachelor of Environmental Science Duration: 3 years full-time

Entry requirements: Queensland Year 12 or equivalent English; Mathematical Methods; plus one of Biology, Chemistry, Earth and Environmental Science or Physics



Bachelor of Environmental Management (Honours)

Duration: 4 years full-time **Entry requirements:** Queensland Year 12 or equivalent English



Bachelor of Mathematics

Duration: 3 years full-time Entry requirements: Queensland Year 12 or equivalent English; Mathematical Methods



Bachelor of Science

Duration: 3 years full-time **Entry requirements:** Queensland Year 12 or equivalent English; Mathematical Methods; plus one of Biology, Chemistry, Earth and Environmental Science or Physics



Bachelor of Advanced Science (Honours)

Duration: 4 years full-time Entry requirements: Queensland Year 12 or equivalent English; Mathematical Methods; plus two of Agricultural Science, Biology, Chemistry, Earth and Environmental Science, Specialist Mathematics or Physics, at least one of which must be Biology, Chemistry or Physics



Bachelor of Veterinary Science (Honours)

Duration: 5 years full-time **Entry requirements:** Queensland Year 12 or equivalent English; Mathematical Methods; Chemistry; plus one of Physics or Biology



Bachelor of Veterinary Technology

Duration: 3 years full-time **Entry requirements:** Queensland Year 12 or equivalent English; General Mathematics or Mathematical Methods



Bachelor of Wildlife Science

Duration: 3 years full-time **Entry requirements:** Queensland Year 12 or equivalent English; General Mathematics or Mathematical Methods



study.uq.edu.au

Disclaimer

The information in this Guide is accurate as at August 2024. However, the University has many programs and courses, and refreshes and updates its programs and course offerings from time to time and without notice. It is your responsibility to visit **study.uq.edu.au** for up-to-date information.



CREATE CHANGE