Undergraduate domestic course

Bachelor of Science

As part of this course you'll choose a major, which you then combine with your choice from a wide range of secondary study options, to take your career path where you want.

**Majors**
- Biological Sciences
- Chemistry
- Earth Science
- Environmental Science
- Physics

You can also choose complementary study options that will provide opportunities to experience another science discipline or study beyond the classical science subjects in areas such as innovation, communication, computer science and education (STEM disciplines).

Depending on your choice, you could find yourself working in the laboratory, in the field, collaborating with industry or even studying overseas for a semester. The possibilities are endless.

For example, if you are passionate about biology, you're creative, you love science and you want to work with people, then you could specialise in Biological sciences and choose a second major in science communication to pursue a career in science journalism.

**Why choose Science?**
As a QUT Science graduate your career path could put you at the forefront of the latest discoveries using nanotechnology, developing solutions to protect plant and animal species for future generations, investigating resource deposits or renewable energy sources, or solving problems like water shortage, salinity and climate change.

You’ll benefit from your course’s real-world focus and the practical experiences you gain throughout your studies:
- Flexibility - Choose from a range of majors and secondary study areas to match your interests and career aspirations.
- Employability - Your course is designed in consultation with industry, government

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Jessica, Bachelor of Science (Chemistry) student

**Hands on learning**

‘All the theory you learn in a lecture or a workshop, is then applied to the practical or the laboratory that you’ll do either that week or within a couple of weeks of learning the theory. The degree is very applicable to what you’d expect in the workforce.’
Bachelor of Science

and the professions. You'll apply theory to real-world situations, ensuring your skills will be in demand when you graduate.

- **Practical teaching** - From the beginning of your course you'll be learning the latest techniques in the laboratory using equipment found in industry. Take advantage of dynamic new teaching spaces that encourage increased engagement between academics and students.

- **State-of-the-art facilities** - you'll be at the forefront of international science education with access to QUT's new multimillion dollar research and teaching facilities, including our $230M Science and Engineering Precinct.

- **Learn from the experts** - your lecturers are experts in their field and include award-winning teachers and world-renowned researchers. All have strong connections with industry through professional experience, applied research and consultancy projects.

- **Work experience** - learn at QUT and in the workplace. Our work-integrated learning program gives you an invaluable opportunity to combine workplace experience with academic study, assessment and support.

- **Cutting-edge technologies** - You will learn about the latest discoveries from QUT's internationally recognised research facilities, ensuring you graduate with the most up-to-date knowledge.

- **A taste of research** - try out a career in research by applying for a Vacation Research Experience Scholarship and undertake a real research project during the Summer Program.

- **See the world** - you might wish to combine your time at QUT with an overseas study experience and gain credit through an International Exchange minor.

**Endless career possibilities**

Here are some examples that might inspire ideas:

- **Be in demand** - an earth science major with a spatial science minor chosen from the Faculty minor list, combined with a work-integrated learning applications minor, will provide you with valuable professional industry experience in this niche area, giving you an excellent advantage in the resource sector.

- **Diversify your understanding** - a biological sciences major combined with a second major from another science area, such as environmental science, will broaden your understanding across multiple industry fields making you more versatile and attractive to employers.

- **Passion for discovery** - a chemistry major can prepare you to conquer the research world. You can achieve this by choosing an extended minor in chemistry for greater depth. Undertake a Vacation Research Project as an applications minor to experience research during undergraduate study.

- **Full of ideas** - an environmental science major with a second major in innovation means you could translate project outcomes into sustainable business opportunities.

- **Share your knowledge** - any science major coupled with a second major in education may be eligible for advanced standing in an accredited postgraduate education degree.

- **International aspirations** - an environmental science major with an international exchange applications minor, coupled with any minor from the university-wide minor list, will equip you with global skills that can be translated into opportunities overseas.

- **Communicate and inspire** - a student taking a biological sciences major, who is creative, loves science and wants to work with people, could take a second major in science communication to pursue an interest in science journalism.

- **Design the future** - a physics major with a second major in computer science will help you develop knowledge of systems and principles including languages and network design.

**Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:

- English
- Maths B

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science, Geography or Maths C.

**Course structure**

**Your science degree**

At QUT you'll create your own personal science degree program of 24 units. During your first year of study you'll get to sample a range of core science disciplines, allowing you to decide on your major later.

**Faculty core units**

These five units give you an introduction to the principles of science the opportunity to learn by enquiry, and to broaden your understanding of the core sciences. You'll study four Faculty core units and an Optional unit of your choice.

From your very first semester, you will collaborate with your peers and teaching staff in QUT's exciting new learning environments. You will explore real-world problems from multiple scientific perspectives and learn the tools of the trade. Depending on your choices, you may find yourself out in the field, working in the laboratory or learning about the impact of scientific discovery on people, policy, industry and the planet.

Working with data you have collected, you'll study how to apply fundamental methods of scientific practice, perform scientific analysis, and learn the tools to present your findings. You'll have the opportunity to explore and discover the range of career and professional outcomes available to you, so you can gain the most from your unit selection and the flexibility the Bachelor of Science has to offer.

**Primary major**

Your major is your main area of study for what you aspire to become professionally. You will receive in-depth knowledge and expertise within your chosen scientific discipline, preparing you for entry into the workforce or further study.

It comprises 11 units and there are five majors to choose from:

- biological sciences
- chemistry
- earth sciences
- environmental sciences
- physics.

**Complementary study areas**

This is where you make the degree your own, tailoring your studies to further match your individual career goals with a wide range of complementary study options available. You'll have the
opportunity to develop sought-after professional skills, deepen your understanding of your major discipline, pursue an interest from across the university, or broaden your scientific understanding. You can even work with industry or study overseas to gain credit towards your degree.

You can choose: a Second major (eight units); or an Extended minor (four units) or Breadth minor (four units), plus either a Faculty minor (four units) or Breadth minor (four units).

**Second major (eight units)**
Choose a second area of study to complement your major, and develop a significant depth of knowledge and skills in two discipline areas. Experience another field, learn another academic methodology and experience interdisciplinary networking.

Choose a second Science discipline, or explore different perspectives which might include:

- computational science
- innovation
- science communication, or
- policy and governance.

**Minor (four units)**
You might prefer to expand the breadth and depth of your studies by adding to your chosen science major two minors.

**Fees**

**HECS-HELP**
You may be eligible for HECS-HELP, a loan scheme to help you pay your course fees, if you are an Australian citizen or hold an Australian permanent humanitarian visa. For other conditions read the HECS-HELP information.

**Student Services and Amenities Fee**
You’ll need to pay the student services and amenities fee as part of your course costs. You may be eligible for SA-HELP, a loan scheme to help you pay your student services and amenities fee, if you are an Australian citizen or hold an Australian permanent humanitarian visa. For other conditions read the SA-HELP information.