

Science is curiosity; answer your questions and excite your mind with a Bachelor of Advanced Science.

DEGREE: BACHELOR OF ADVANCED SCIENCE



A Bachelor of Advanced Science takes Science to the next level

Do you want to have a career one step above the rest? A Bachelor of Advanced Science will equip you with high-level IT, problem solving, analytical, qualitative and quantitative reasoning skills that industry leaders have told us are what they need.

Explore your passion and curiosity with this hands on course that will allow you to sink your teeth into every aspect of science you can only dream of. Whether you are in the labs or out on site, this course will get you thinking big. You'll be out of your comfort zone, but you will be rewarded with the experience and knowledge you have gained. The scientific and environmental challenges of the future are increasingly interdisciplinary and quantitative, and they require scientists who can work comfortably with the cutting edge methods of scientific analysis and modelling that now pervade all of the sciences.

Upon graduating with a Bachelor of Advanced Science, you'll demonstrate that you have prepared yourself to tackle these challenges head-on. You'll be exactly what a potential employer is after.

So, regardless of whether your passion is Marine Biology, Aquaculture, Earth Science, Chemistry, Mathematics, Molecular and Cell Biology, Physics, or Zoology and Ecology, this is your opportunity to get the best preparation to be both a leader and innovator in your field.

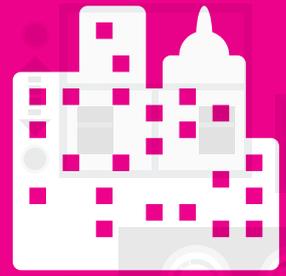
How do I study a Bachelor of Advanced Science?

Studying on campus full time (four subjects over one semester), the course will take 3 years, or longer if you wish to study part-time. If you are interested in this course, make sure you study English and Maths B in year 11 and 12. Our most successful students have also taken combinations of Maths C, Biology, Chemistry and Physics during their senior school years. Studying these subjects while you're at school will be invaluable to your understanding of the essential concepts required for your studies at university.

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OP/Rank: 6/89
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DEGREE: BACHELOR OF PLANNING



Do you want to be part of the cities of the future?

You can find out through studying a Bachelor of **Planning**.

When you were younger, do you remember making your own town out of building blocks? Would you like to make your childhood passion into a satisfying career? Imagine a job in which you shape the way whole cities develop. This is the work of a planner – they help decide the design and appearance of cities and towns as well as their services, facilities and communities. Few other careers enable you to make such a profound impact on the public good. A Bachelor of Planning will help you deliver functional

cities, thriving regions and healthy urban environments - right alongside better social, environmental and economic wellbeing.

How do I study a Bachelor of Planning?

Studying on campus full time (four subjects over one semester), the course will take 3 years, or longer if you wish to study part-time.

If you are interested in this course, make sure you study English in senior school. If you are keen to succeed whilst at university, it is strongly encouraged you consider adding Geography to your studies as well. Studying these subjects while you're at school will be invaluable to gauging your understanding of these concepts when you begin studying at university.

OP/Rank: 17/63





Interested in the Environment you live in? Want to make a difference?

You can find out through studying a Bachelor of Environmental Practice.

Ever wondered why those three words you undoubtedly remember – reduce, reuse and recycle are so important? Would you like to be one of the experts called upon to solve the great sustainability and environmental problems that face our world?

Our environment is constantly changing due to human impact, and the world is in desperate need of more people who share a passion for wanting to conserve our precious environment for generations to come. By studying Environmental Practice at JCU, you will learn how to manage the interactions between humans and the environment to find potential solutions to pressing environmental problems. A degree in Environmental Practice brings together areas such as environmental management, urban ecology, terrestrial ecosystem assessment, and corporate environmental governance. You will be able to develop the

valuable skills and knowledge required to understand the environment and how humans can interact it in sustainable ways. Upon your graduation, you'll be ready to hit the ground running and contribute to a whole range of organisations who need environmental, social and economic skills from their employees.

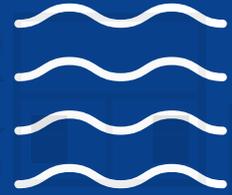
How do I study Environmental Practice?

If you are studying on campus full time (four subjects over one semester), the course will take you 3 years, or longer if you wish to study part time.

If you are interested in this course, make sure you study English in senior school. If you are keen to do one of the two science majors in this degree, it is strongly encouraged you consider adding Maths B and either Biology, Chemistry, Physics or Maths C to your studies in senior school. Studying these subjects while you're at school will be invaluable to your understanding of the essential concepts required for your studies at university.

OP/Rank: 17/63





Interested in the beauty of the ocean?

You can find out through studying a Bachelor of **Marine Science**.

Are you more intrigued by the mysterious world of Marine Physics, Chemistry, Geology and Biology under the ocean than on the land?

Marine Life Doctors

A Marine Scientist researches the sea and studies its interactions with its organisms, sea floors, coastal areas and the atmosphere. Already, you are at an advantage – with the Great Barrier Reef on our doorstep – a marvellous 2,300km long – you will never be at a loss of real life experience in the field. Here at JCU, you will study with the best marine scientists in the world who continue to break new ground. Inspire your mind as you witness the breakthrough of new technologies, and marvel at the beauty and greatness of the Barrier Reef.

What career opportunities would I have as a Marine Scientist?

As a Marine Scientist, you will study not only the ocean, but the multitude of ecosystems that exist below the surface, including coastal environments, ocean currents and the sea floor. Marine Science encompasses elements of marine biology, oceanography, marine geosciences and environmental management. Altogether, you will be constantly surrounded by beautiful marine life, researching

their environment and developing new strategies on how their home can be conserved.

JCU's Bachelor of Marine Science focuses on developing the high-level skills technologically enabled professionals need if they are to address the challenges facing the world's oceans over coming decades. A diversity of rapidly evolving technologies are providing marine scientists with increasingly powerful ways to collect diverse data from above and below the waves; data that support and direct solutions to previously insoluble problems. These methods include: water quality sensors, seabed mapping and fish assessment sonar, sensors for detecting underwater mineral deposits and wrecked ships, oceanographic sensors, acoustic tagging and tracking equipment, sensors for monitoring the activity and physical environment of marine mammals, reptiles and fish.

How do I become a Marine Scientist?

If you are studying on campus full time (four subjects over one semester), the course will take you 3 years, or longer if you wish to study part time.

If you are interested in this course, make sure you study English, Maths B and Chemistry in senior school, as this will be assumed knowledge once you begin university. If you are keen to succeed whilst at university, it is strongly encouraged you consider adding either Biology, Physics or Maths C to your studies in senior school. Studying these subjects while you're at school will be invaluable to gauging your understanding of these concepts when you begin studying at university.

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Are you interested in the history of Earth?

You can find out through studying a Bachelor of **Geology**.

When you were younger, do you have memories of having a rock collection? Did you understand how they came to be rocks? Have you ever wondered what happens under the surface of the Earth, or what was on the surface of the Earth before humans came about? Have you ever wondered where all the minerals we use in our mobile phones, solar panels, cars and computers actually come from, and how they formed and where they are found?

What is a Geologist?

Geology is simply a more applied aspect of Earth Science. Geologists study the past, present and future of the earth, and its component parts, including the history of rocks, oceans and the atmosphere and how they interacted with life forms as they evolved over time, from the earliest bacteria, via dinosaurs to humans. Geologists make maps to illustrate how the Earth has changed over time. More importantly, they identify where to find important minerals that host metals like Copper, Zinc or Gold, and fuels such as oil, or new minerals that contain metals that will fuel the high-tech economy of tomorrow like lithium and dysprosium. Geologists are also responsible for studying and predicting natural disasters such as earthquakes, mudslides, tsunamis and volcanic eruptions, so you may find yourself at the base of an active volcano at some point throughout your career!

Can I make a satisfying career with Geology?

Geologists don't just study rocks! They are often global explorers (and increasingly space explorers). One of the most special aspects of being a geologist is the opportunity to travel the world, which is required of many geologists who often get the opportunity to visit mines, volcanoes, and explore for new resources or solutions all over the planet. You might also be interested to know that Geologists are amongst the highest paid scientists and professionals in industry, both in Australia and Globally. As a geologist you could be a leader in locating new reserves of rare minerals used in green energy development, precious metals or clean water. Your job may find you being responsible for finding feasible and sustainable ways to extract resources, or evaluate geologic natural hazards that may threaten communities. Imagine being a part of history when you develop a more sustainable way to extract ground water to grow crops in a remote area? And if your sites are set beyond Earth, then you may be interested to know that planetary geology is a rapidly growing field of Geology.

If you're interested in working within industry, the mineral exploration and mining industry is rapidly evolving, and so too is a myriad of potential employment prospects if you wish to work within this area.

How Do I become a Geologist?

If you are studying on campus full time (four subjects over one semester), the course will take you 3 years. There is also a part time option available.

If you are interested in this course, make sure you study English in senior school. If you are keen to succeed whilst at university, it is highly recommended you add Maths B, as well as either Chemistry or Physics to your studies in senior school.

OP/Rank: 16/65





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