Bachelor of Environmental Science with Honours*

UC UNIVERSITY OF CANTERBURY
Te Whare Wānanga o Waitaha
CHRISTCHURCH NEW ZEALAND

Toitū te whenua, toitū te iwi
Sustain the land, sustain the people

As demand for the planet's limited resources grows, so does the need for people who understand the environment and how to protect it. Study environmental science and be part of the solution. Help governments, whānau, hapū, iwi, industries and communities solve complex problems, innovate and make good decisions for our environment – now and in the future.

* subject to Te Pōkai Tara | Universities New Zealand CUAP approval

UC SCIENCE | Te Rāngai Pūtaiao

Tiakina te taiao | Work for the planet

The Bachelor of Environmental Science with Honours (BEnvSci (Hons)) is a career-focused degree that will prepare you with the knowledge and skills to solve environmental and global sustainability challenges.

Environmental Science is an interdisciplinary approach to the study of the environment, incorporating its structure and functioning, and human interactions with the environment.

As a BEnvSci graduate you'll be uniquely prepared and qualified to make the world a better place for generations to come – mō tātou, ā, mō ngā uri ā muri ake nei.

Meka mātua | Key facts

1. 4-year undergraduate degree
2. Field and laboratory-based learning
3. A unique-to-Aotearoa New Zealand degree
4. A commitment to building bicultural competence and confidence
5. Embedded understanding between mātauranga Māori and scientific knowledge
6. Up to 400 hours of work-based learning

A unique-to-Aotearoa New Zealand degree

UC is uniquely placed to offer an Environmental Science programme that ensures the relevance of, and responsiveness to, Te Tiriti o Waitangi | Treaty of Waitangi. You will be exposed to unique opportunities through the curriculum, activities and experiences to engage in te ao Māori (Māori world view), mātauranga Māori (Māori knowledge systems), and mātauranga Ngāi Tahu (Ngāi Tahu knowledge systems). UC's commitment to valuing Māori identities and knowledge, and to instilling bicultural confidence and competence in its graduating students, ensures you will be uniquely positioned to live and work in an intercultural Aotearoa New Zealand.

He aronga umanga
A career-focused degree

The BEnvSci (Hons) degree is a 4-year degree focusing on earth and life sciences and the interplay between environmental challenges and society.

The final year of study includes a community-based research project. Mātauranga Māori and bicultural concepts are embedded in the core of the degree as well as each of the majors.

The degree has a strong focus on preparing ākonga, students, for their future careers. There are 400 hours of work-based learning and the fourth-year courses focus on preparing students for the workplace.

Ahorau akoranga matua
Interdisciplinary majors

The degree takes an interdisciplinary, quantitative, and bicultural approach to environmental science. It includes six interdisciplinary majors with a prescribed programme of study for each.

The six majors are:

- **Freshwater.** Acquire skills to assist with the management of freshwater resources and ecosystems.
- **Ecosystem Health and Biosecurity.** Combine ecological knowledge, field and lab skills to manage natural resources.
- **Environmental Change.** Develop skills to tackle a range of environmental issues.
- **Environmental Contamination.** Determine and mitigate impacts of environmental contamination.
- **Environmental Hazards and Disasters.** Understand, mitigate and manage anticipated hazard impacts.
- **Sustainable Coasts.** Contribute to sustainable use and management of coastal and marine resources.

Raupapa Tohu | Degree structure

The BEnvSci degree consists of an environmental science core, a major from the second year onwards, and optional courses where you can follow your interests and find courses to support your environmental science major.

ENVR 101	STAT 101	CHEM 111/114	BIOL 112	GEOG 106	SCIE 101	Elective	Elective
ENVR 201	GEOG 206	BIOL 209/ GEOG 205/208	BIOL 274	MAJOR	MAJOR	Elective	Elective
ENVR 304	ENVR 302		PSYC 341	MAJOR	MAJOR	MAJOR	Elective
ENVR 415	ENVR 411	ENVR 480 Research project		MAJOR	MAJOR	MAJOR	Elective

Ngā ara ki tua | Where can it take me?

Environmental science graduates are in demand for their ability to identify, monitor and solve a variety of problems associated with the environment. They're helping businesses become more sustainable, working with engineering corporations to reduce impacts of major projects, advising government agencies on environmental risks, and supporting communities such as hapū and iwi to realise their environmental aspirations.

If you want a career where you can make a difference through environmental science, then this degree could be for you.

Graduates can go on to work in:

- central and local government
- Crown research institutes
- Te Papa Atawhai | Department of Conservation
- Māori and/or iwi organisations
- environmental consultancies
- local and international non-government organisations
- Manatū Ahu Matua | Ministry for Primary Industries
- Hīkina Whakatutuki | Ministry of Business, Innovation and Employment.

He aha ngā herenga whakaurunga?
What are the entry requirements?

- University Entrance or international equivalent.
- Some basic prior experience in science is recommended (to level 3 NCEA).

Rā tīmata | Start dates

Kahuru | February, Toru | July

Karahipi | Scholarships

*For more information on scholarships go to www.canterbury.ac.nz/future-students/fees-and-funding/scholarships-at-uc/

‘I lead a great team of people providing long-term benefits for communities all over the world.’

Gareth Taylor

Senior Environmental Consultant and Director at Collaborations

Bachelor of Science in Psychology and Biological Sciences
PhD in Environmental Science

What employers say about this degree

‘The pulling together of Biology, Chemistry and Geography is a strong basis.’

‘This is a fantastic area to get into. We are preparing students for the future and this is a new territory.’

Ngā painga o UC?
Why study at UC?

Compact city and campus

Our campus is in the heart of ōtautahi Christchurch within the hapū area of Ngāi Tūāhuriri in the iwi region of Ngāi Tahu. The city is the largest in Te Waipounamu South Island and the second largest in the country. It is also Aotearoa New Zealand’s most affordable major city.

Learn from the best

UC is the top university in the country for the proportion of researchers that teach, so you will be taught by scientists who are at the forefront of advances in their field. Learn from internationally recognised experts and more.

We collaborate with a range of specialist, internationally recognised organisations working in the environmental science area, including:

- Biomolecular Interaction Centre
- Food, Policy and Wellbeing Research Cluster
- Gateway Antarctica
- Te Kōhaka o Tūhaitara Trust
- Te Taiwhenua o te Hauora | GeoHealth Laboratory
- The Materials Cluster@UC
- Toi Hangarau | Geospatial Research Institute
- Waterways Centre for Freshwater Management
- Wireless Research Centre.

Purpose-built facilities

UC’s laboratories, research centres, and field stations are internationally renowned. Added to this is a brand-new regional research centre, with state-of-the-art research and learning spaces, and high-tech computing systems and technology, that embraces the Ngāi Tahu cultural narrative of Whatukura in its design.

Learn by doing

You will have hands-on learning experiences in lectures, labs, and at our field stations. You can ‘do’ science right from the first semester of your first year.

SCNC846

He aha ngā ara umanga mō te kaupapa Pūtaiao Aronukurangi?
Thinking about a career in Environmental Science?

Get in touch today and find out how you can take the first step. Learn about degree options, campus life, how to enrol, and more.

0800 VARSITY (827 748) **liaison@canterbury.ac.nz** **www.canterbury.ac.nz/science/environmental-science/**

UC SCIENCE | Te Rāngai Pūtaiao