

Bachelor of Science (Environmental Science)

(ENB001.1)

Please note these are the 2023 details for this course

Domestic students

Selection rank	60 Note: The selection rank is the minimum ATAR plus adjustment factors required for admission to the program in the previous year. This is an indicative guide only as ranks change each year depending on demand.
Delivery mode	On campus
Location	Bruce, Canberra
Duration	3.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Science
UAC code	368023
English language requirements	An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences

International students

Academic entry requirements	<p>To study at UC, you'll need to meet our academic entry requirements and any admission requirements specific to your course. Please read your course admission requirements below. To find out whether you meet UC's academic entry requirements, visit our academic entry requirements page.</p> <p>View UC's academic entry requirements</p>
Delivery mode	On campus
Location	Bruce, Canberra
Duration	3.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Science
CRICOS code	106488A
English language requirements	<p>An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent).</p> <p>View IELTS equivalences</p>

About this course

Understand the science behind our ecosystems

From climate change, habitat loss and pollution, environments around the world are facing extreme challenges. Explore these important issues along with other socio-scientific challenges, with UC's Bachelor of Environmental Science. Immerse yourself in the world of environmental science using the latest lab and field tools, and emerge with an applied, solutions-focused perspective.

The Specialist Major in Environmental Science builds upon the Core Major in Science to give you skills to identify, conceptualise and analyse a diverse environmental futures. You'll be introduced to major environmental challenges and be inspired to innovate solutions using cutting-edge approaches.

The inclusion of a breadth component allows you to explore and expand your learning across a range of disciplines. Scenario-based study and work-integrated learning (WIL) opportunities ensure you graduate career-ready, equipped to solve a range of theoretical and contemporary real-world problems in local and global contexts.

Study a Bachelor of Science (Environmental Science) at UC and you will

- Exhibit a breadth of scientific knowledge and technical skills, with specialist depth in environmental science.
- Develop critical thinking and data analysis skills to solve a range of complex problems in local and global contexts.
- Select and apply appropriate practical, conceptual and/or theoretical techniques or scientific tools to conduct scientific investigations relevant to a range of disciplines, with particular specialisation in environmental science.
- Demonstrate the ability to collect scientific data individually or collaboratively, within legal, ethical and social frameworks, with key laboratory and field-based competencies.
- Evaluate current and emerging ethical and cultural issues that arise in contemporary science and exhibit cross-cultural competence and social responsibility.
- Critically analyse, synthesise and integrate scientific knowledge, literature, data, or arguments for effective communication to a range of audiences.

Work-integrated learning

Get practical experience with inbuilt professional practice units. Complete internships with leading organisations like CSIRO, ACT Parks and Wildlife, Questacon and more.

Access unique opportunities to work on real-world research projects. The University of Canberra's own Institute for Applied Ecology is renowned for delivering high-quality, globally significant research with practical solutions to real-world environmental problems.

Career opportunities

- Environmental Scientist, Consultant, or Manager
- Environmental Protection Officer
- Invasive Species Officer
- Natural Resource Manager
- Park Ranger
- Research Scientist
- Sustainability Officer
- Water Scientist
- Waterways Planner

Course specific information

The Bachelor of Science (Environmental Science) is your pathway to a career contributing to a positive environmental future. In addition to a wealth of career opportunities with an applied focus, you will be setting yourself up perfectly for postgraduate study or research. You'll access unique opportunities to work on real-world research projects through UC's Institute for Applied Ecology, which is renowned for delivering high-quality research with practical solutions to environmental problems.

Professional accreditation

Not applicable.

Admission requirements

Admission to this course is based on an entrance rank. A rank can be achieved by the following means: Year 12 ATAR, other Australian Qualification, work experience, overseas qualification.

Assumed knowledge

Year 12 Biology (T)/Human Biology (T), Chemistry (T) and Mathematical Methods (T) or equivalent.

Periods course is open for new admissions

Year	Location	Teaching period	Teaching start date	Domestic	International
2025	Bruce, Canberra	Semester 1	03 February 2025	✓	✓
2025	Bruce, Canberra	Semester 2	28 July 2025	✓	✓
2026	Bruce, Canberra	Semester 1	16 February 2026	✓	✓
2026	Bruce, Canberra	Semester 2	10 August 2026	✓	✓
2027	Bruce, Canberra	Semester 1	15 February 2027	✓	✓
2027	Bruce, Canberra	Semester 2	09 August 2027	✓	✓

Credit arrangements

A credit transfer arrangement is available for this course for the following institutions:

University Of Canberra College

[Diploma of Science \(31145\)](#)

Course requirements

Bachelor of Science (Environmental Science) (ENB001) | 72 credit points

Required - 48 credit points as follows

[Expand All](#) | [Collapse All](#)

Core Major in Science (CM0029) | 24 credit points

Required - Must pass 24 credit points as follows

Professional Orientation (Science) (11718) | 3 credit points – Level 1

Professional Practice 1 (Science) (11719) | 3 credit points – Level 2

Professional Practice 2 (Science) (11720) | 3 credit points – Level 3

Professional Evidence (Science) (11721) | 3 credit points – Level 3

Biological Concepts (11722) | 3 credit points – Level 1

Data Analysis Skills for Science (11723) | 3 credit points – Level 1

Chemical Concepts (11724) | 3 credit points – Level 1

Contextual Physics with Mathematics (11725) | 3 credit points – Level 1

Specialist Major in Environmental Science (SM0044) | 24 credit points

Required - Must pass 24 credit points as follows

Meeting Environmental Challenges: Foundations (11771) | 3 credit points – Level 1

Diversity of Life and Habitats (11772) | 3 credit points – Level 1

Applied Ecology (11773) | 3 credit points – Level 2

Environmental Stress and Adaptation (11774) | 3 credit points – Level 2

Environmental Tools and Technologies (11775) | 3 credit points – Level 2

Land and Water (11776) | 3 credit points – Level 2

Tackling Environmental Challenges: Conservation (11777) | 3 credit points – Level 3

Tackling Environmental Challenges: Water (11778) | 3 credit points – Level 3

- 1. From Sem 2, 2023, students must complete a minimum of 18 credit points (6 units) at Level 3 or higher within their degree.
- 2. Students completing SM0044 Specialist Major in Environmental Science must complete a minimum of 6CP (2 units) of open electives at Level 3, in addition to their required units.

Open Electives - 24 credit points from the following

- - Must pass 24 credit points from anywhere in the University, as a breadth major, a breadth minor and/or as individual units.

In addition to course requirements, in order to successfully complete your course you must meet the inherent requirements. Please refer to the [inherent requirements statement](#) applicable to your course

Typical study pattern

UC - Canberra, Bruce

Standard Full Time, Semester 1 Commencing

Year 1

Semester 1

Biological Concepts (11722)

Contextual Physics with Mathematics (11725)

Meeting Environmental Challenges: Foundations (11771)

Professional Orientation (Science) (11718)

Semester 2

Chemical Concepts (11724)

Data Analysis Skills for Science (11723)

Diversity of Life and Habitats (11772)

Open Elective Unit

Year 2

Semester 1

Applied Ecology (11773)

Environmental Tools and Technologies (11775)

Two Open Elective Units

Semester 2

Environmental Stress and Adaptation (11774)

Land and Water (11776)

Professional Practice 1 (Science) (11719)

Open Elective Unit

Year 3

Semester 1

Professional Practice 2 (Science) (11720)

Tackling Environmental Challenges: Conservation (11777)

Two Open Elective Units

Semester 2

Professional Evidence (Science) (11721)

Tackling Environmental Challenges: Water (11778)

Two Open Elective Units

Standard Full Time, Semester 2 Commencing

Year 1

Semester 2

Biological Concepts (11722)

Data Analysis Skills for Science (11723)

Diversity of Life and Habitats (11772)

Professional Orientation (Science) (11718)

Year 2

Semester 1

Applied Ecology (11773)

Contextual Physics with Mathematics (11725)

Meeting Environmental Challenges: Foundations (11771)

Open Elective Unit

Semester 2

Chemical Concepts (11724)

Environmental Stress and Adaptation (11774)

Land and Water (11776)

Open Elective Unit

Year 3

Semester 1

Environmental Tools and Technologies (11775)

Professional Practice 1 (Science) (11719)

Two Open Elective Units

Semester 2

Professional Practice 2 (Science) (11720)

Tackling Environmental Challenges: Water (11778)

Two Open Elective Units

Year 4

Semester 1

Professional Evidence (Science) (11721)

Tackling Environmental Challenges: Conservation (11777)

Two Open Elective Units

Standard Part Time, Semester 1 Commencing

Year 1

Semester 1

[Biological Concepts \(11722\)](#)

[Professional Orientation \(Science\) \(11718\)](#)

Semester 2

[Data Analysis Skills for Science \(11723\)](#)

[Diversity of Life and Habitats \(11772\)](#)

Year 2

Semester 1

[Contextual Physics with Mathematics \(11725\)](#)

[Meeting Environmental Challenges: Foundations \(11771\)](#)

Semester 2

[Chemical Concepts \(11724\)](#)

Open Elective Unit

Year 3

Semester 1

[Applied Ecology \(11773\)](#)

[Environmental Tools and Technologies \(11775\)](#)

Semester 2

[Environmental Stress and Adaptation \(11774\)](#)

[Land and Water \(11776\)](#)

Year 4

Semester 1

Two Open Elective Units

Semester 2

Two Open Elective Units

Year 5

Semester 1

Two Open Elective Units

Semester 2

[Professional Practice 1 \(Science\) \(11719\)](#)

Open Elective Unit

Year 6

Semester 1

[Professional Practice 2 \(Science\) \(11720\)](#)

[Tackling Environmental Challenges: Conservation \(11777\)](#)

Semester 2

[Professional Evidence \(Science\) \(11721\)](#)

[Tackling Environmental Challenges: Water \(11778\)](#)

Standard Part Time, Semester 2 Commencing

Year 1

Semester 2

[Biological Concepts \(11722\)](#)

[Professional Orientation \(Science\) \(11718\)](#)

Year 2

Semester 1

[Contextual Physics with Mathematics \(11725\)](#)

[Meeting Environmental Challenges: Foundations \(11771\)](#)

Semester 2

[Chemical Concepts \(11724\)](#)

[Diversity of Life and Habitats \(11772\)](#)

Year 3

Semester 1

[Applied Ecology \(11773\)](#)

[Data Analysis Skills for Science \(11723\)](#)

Semester 2

[Environmental Stress and Adaptation \(11774\)](#)

[Land and Water \(11776\)](#)

Year 4

Semester 1

[Environmental Tools and Technologies \(11775\)](#)

Open Elective Unit

Semester 2

Two Open Elective Units

Year 5

Semester 1

Two Open Elective Units

Semester 2

Two Open Elective Units

Year 6

Semester 1

[Professional Practice 1 \(Science\) \(11719\)](#)

Open Elective Unit

Semester 2

[Professional Practice 2 \(Science\) \(11720\)](#)

[Tackling Environmental Challenges: Water \(11778\)](#)

Year 7

Semester 1

[Professional Evidence \(Science\) \(11721\)](#)

[Tackling Environmental Challenges: Conservation \(11777\)](#)

Course information

Course duration

Standard 3 years full time or part-time equivalent. Maximum 10 years from date of enrolment to date of course completion.

Learning outcomes

Learning outcomes	Related graduate attributes
Develop critical thinking and data analysis skills to solve a range of theoretical and contemporary real-world problems in local and global contexts, recognising the importance of entrepreneurship, innovation and work-integrated learning.	<p>UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; work collaboratively as part of a team, negotiate, and resolve conflict; display initiative and drive, and use their organisational skills to plan and manage their workload; and take pride in their professional and personal integrity.</p> <p>UC graduates are global citizens: Think globally about issues in their profession; adopt an informed and balanced approach across professional and international boundaries; understand issues in their profession from the perspective of other cultures; communicate effectively in diverse cultural and social settings; make creative use of technology in their learning and professional lives; and behave ethically and sustainably in their professional and personal lives.</p> <p>UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; be self-aware; adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and evaluate and adopt new technology.</p> <p>UC graduates are able to demonstrate Aboriginal and Torres Strait Islander ways of knowing, being and doing: Use local Indigenous histories and traditional ecological knowledge to develop and augment understanding of their discipline; and apply their knowledge to working with Indigenous Australians in socially just ways.</p>
Critically analyse, synthesise and integrate scientific knowledge, literature, data, or arguments for effective communication to a range of audiences.	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; work collaboratively as part of a team, negotiate, and resolve conflict; display initiative and drive, and use their organisational skills to plan and manage their workload; and take pride in their professional and personal integrity.

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UC graduates are able to demonstrate Aboriginal and Torres Strait Islander ways of knowing, being and doing: Use local Indigenous histories and traditional ecological knowledge to develop and augment understanding of their discipline; and apply their knowledge to working with Indigenous Australians in socially just ways.

Demonstrate the ability to collect scientific data individually or collaboratively, within legal, ethical and social frameworks, with key laboratory, clinical and/or field-based competencies.

UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; work collaboratively as part of a team, negotiate, and resolve conflict; display initiative and drive, and use their organisational skills to plan and manage their workload; and take pride in their professional and personal integrity.

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	<p>UC graduates are able to demonstrate Aboriginal and Torres Strait Islander ways of knowing, being and doing: Use local Indigenous histories and traditional ecological knowledge to develop and augment understanding of their discipline; and apply their knowledge to working with Indigenous Australians in socially just ways.</p>
<p>Exhibit breadth of scientific knowledge and technical skills, with a depth in at least one science specialist area.</p>	<p>UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; work collaboratively as part of a team, negotiate, and resolve conflict; display initiative and drive, and use their organisational skills to plan and manage their workload; and take pride in their professional and personal integrity.</p> <p>UC graduates are global citizens: Think globally about issues in their profession; adopt an informed and balanced approach across professional and international boundaries; understand issues in their profession from the perspective of other cultures; communicate effectively in diverse cultural and social settings; make creative use of technology in their learning and professional lives; and behave ethically and sustainably in their professional and personal lives.</p> <p>UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; be self-aware; adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and evaluate and adopt new technology.</p> <p>UC graduates are able to demonstrate Aboriginal and Torres Strait Islander ways of knowing, being and doing: Use local Indigenous histories and traditional ecological knowledge to develop and augment understanding of their discipline; and apply their knowledge to working with Indigenous Australians in socially just ways.</p>
<p>Select and apply appropriate practical, conceptual and/or theoretical techniques or scientific tools to conduct scientific investigations relevant to a range of disciplines.</p>	<p>UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; work collaboratively as part of a team, negotiate, and resolve conflict; display initiative and drive, and use their organisational skills to plan and manage their</p>

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Evaluate current and emerging ethical and cultural issues that arise in contemporary science and exhibit cross-cultural competence and social responsibility.

UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; work collaboratively as part of a team, negotiate, and resolve conflict; display initiative and drive, and use their organisational skills to plan and manage their workload; and take pride in their professional and personal integrity.

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being flexible and keen to engage with new ideas; and evaluate and adopt new technology.

UC graduates are able to demonstrate Aboriginal and Torres Strait Islander ways of knowing, being and doing: Use local Indigenous histories and traditional ecological knowledge to develop and augment understanding of their discipline; and apply their knowledge to working with Indigenous Australians in socially just ways.

Placements requirements

Students may require a police check, working with vulnerable people, current vaccination.

Majors

- [Core Major in Science \(CM0029\)](#)
- [Specialist Major in Environmental Science \(SM0044\)](#)

Awards

Award	Official abbreviation
Bachelor of Science	BSc
Bachelor of Science (Environmental Science)	BSc(EnvSc)

Alternative exits

Alternative award - Bachelor of Science:

Students may elect to graduate from this course with a Bachelor of Science if they have passed 72 credit points including the Core Major in Science and the Specialist Major in Environmental Science (or another Science specialist major as approved by the Program Director).

Enquiries

Student category	Contact details
Current and Commencing Students	Please contact the University Student Centre by Email student.centre@canberra.edu.au or Phone 1300 301 727
Prospective Students	Please email: study@canberra.edu.au or telephone: 1800 UNI CAN (1800 864 226)

Download your course guide



Scholarships

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CRICOS 00212K

TEQSA Provider ID: PRV12003 (Australian University)

UC acknowledges the Ngunnawal people, traditional custodians of the lands where Bruce campus is situated. We wish to acknowledge and respect their continuing culture and the contribution they make to the life of Canberra and the region. We also acknowledge all other First Nations Peoples on whose lands we gather.