

UC Science Summer Camp

2 – 6 December 2019, University of Canterbury, Christchurch



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



Experience the exciting world of science at UC and find out first-hand what university life is really like. Interested? Apply now!

UC Science Summer Camp

UC Science Summer Camp is a week-long event for Year 12 students interested in studying science at university. The camp runs from 2–6 December 2019 and will be based in Christchurch at UC's Ilam campus. Students will stay on campus in university accommodation.

During the week they'll attend lectures, work in the labs, visit one of UC's many field stations, meet with staff and current students, and find out about the amazing research happening at UC.

There are 60 places available and students can apply from anywhere in New Zealand.

Why UC Summer Science Camp?

The transition from school to university can be hard – there are so many options to choose from and decisions to be made.

That's why we started this camp. We want to give students a real taste of university life and let them experience first-hand what studying science at UC is like, so they can make informed decisions for their future.

Camp details

Date	Monday 2 December to Friday 6 December
Location	University of Canterbury, Ilam campus, Christchurch
Eligibility	Open to year 12 students going into Year 13 in 2020
Places available	60
Accommodation	Rochester and Rutherford Hall of Residence
Field trip	Cass Field Station
Cost	\$575 – includes accommodation, food and travel during the week, excluding travel to Christchurch
Scholarships	Five Diversity Scholarships and Three Pasifika Scholarships available
Application dates	Applications open 1 July and close 10 August Successful applicants notified 1 October
Apply online	www.canterbury.ac.nz/science/outreach/summer-camp/

What's on offer

During their visit, students will be completely immersed in UC life and will get to experience the full scope of science on offer.

Highlights include:

- **Interactive lectures and workshops** on major global challenges including climate and sustainability, new technologies and innovation
- **Workshops** utilising field-based data collected from GPS and drone technology
- **Discussions** on psychology, the effects of designer drugs on psychological functioning, and the psychological impacts of machines on humans

- **A tour** of the new Ernest Rutherford building
- **Hands on research** in UC's new science labs, including water testing and ecological monitoring
- **A day trip** to Cass Field Station in the Canterbury High Country
- **Viewing** the sun through solar telescopes on UC's purpose-built astronomy viewing platform on top of the Ernest Rutherford building
- **Social activities** in the evening including a movie night, social football, games and pizza evening



UC Science Camp Programme draft outline*

	Monday 2 December	Tuesday 3 December	Wednesday 4 December	Thursday 5 December	Friday 6 December
9 – 10.30	Airport pickup from 8am	Cass Field Trip – Biological sciences Plant diversity Microbial sampling Ecological monitoring	Renewable energy and storage Research presentation and labwork exercise	GIS and Physical Geography Lab exercise and presentation	Graduate stories
Morning tea					
11.00 – 12.30	Registration and Welcome Rochester and Rutherford	Cass Field Trip – Biological sciences Plant diversity Microbial sampling Ecological monitoring	Chemical sciences Research presentation and labwork exercise	Environmental Science Lab and workshop	Undergraduate science at UC Next steps
Lunch					
1.30 – 3.00	Psychology Workshops What supporting others might look like Sleep who needs it	Cass Field Trip – Earth sciences Investigations using drone technology and GPS Geological history and surface processes	Nanotechnology and new materials Research presentation and labwork exercise	Biological sciences Lab session talk on Conservation genomics Water samples analysis Microbial samples Ecological Monitoring	Farewell and depart
Afternoon Tea					
3.30 – 5.00	Psychology Workshops Social psychology	Cass Field Trip – Earth sciences Investigations using drone technology and GPS Geological history and surface processes	Medical physics MARS – 3D scanner	Biological sciences Lab session talk on Conservation genomics Water samples analysis Microbial samples Ecological Monitoring	
Dinner and activities	Halls dinner and activities	Late dinner in halls	City tour	BBQ and games	

 Intro and general sessions	 Biological sciences	 Earth sciences
 Physical and chemical sciences	 Breaks and social sessions	 Human sciences

*Subject to change

Why Science?



The world is facing immense challenges. For every problem, science is helping us find solutions.

Science needs bright, young minds with new ideas and approaches. Science needs people like you who want to make a difference.

Where can it take me?

A career in science is limited only by your own imagination. You could be anything – from a marine biologist to a market analyst, a psychologist to a policy adviser, a seismologist to an aerospace engineer, and much, much more. With science – anything is possible.

Where do I start?

A Bachelor of Science (BSc) is the first step to becoming a scientist. It can open doors to many other careers too. A BSc has lots of subjects to choose from, exposes you to new ideas and technologies, and gives you the skills and tools you'll need to understand and influence the world around you.

Join the dreamers, explorers and innovators of our time. Choose science and change the world.

Find out more

Please contact us for more information about this camp.

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www.canterbury.ac.nz/science/outreach/summer-camp/

BSc Majors

We offer the following 19 majors:

- Astronomy
- Biochemistry
- Biological Sciences
- Chemistry
- Computer Science
- Data Science
- Economics
- Environmental Science
- Finance
- Financial Engineering
- Geography
- Geological Sciences
- Linguistics
- Mathematics
- Medicinal Chemistry*
- Philosophy
- Physics
- Psychology
- Statistics

*Subject to CUAP