

Agritech is about enabling smarter farming. It involves using technology and innovation to improve efficiency, sustainability and profitability across all areas of agriculture. From automated irrigation and software for pest and disease prediction, to increased efficiency and production – agritech is taking farming into the future.

*“I’m passionate about protecting the environment and want to know what can be done to support it.”*

*– Callum, studying towards a Bachelor of Science in Biological Sciences and Statistics.*



### Why agritech?

Climate change, an exploding world population and increased demand for food is increasing the urgency for more sustainable use of natural resources in farming. The world needs food and we need to get better at growing, harvesting, processing and distributing it. That’s where agritech comes in. Agritech is about providing sustainable, smarter alternatives to traditional farming methods. Get into agritech and make a difference from the inside out.

### Where do I start?

Interested in food security and protecting the planet? A Bachelor of Science (BSc) in Biological Sciences with an endorsement in Biosecurity is a great place to start. Biology is the study of all living things; while biosecurity is about protecting economies, environments and human health from pests and diseases. This degree will arm you with the knowledge to tackle major global challenges such as improving environmental protection, increasing and protecting the world’s food supply, developing disease-resistant crops, eradicating pests, and more.



## BSc in Biology with an endorsement in Biosecurity – what you need to know

A BSc in Biological Sciences with an endorsement Biosecurity is a three-year degree that will give you a valuable set of transferable skills that can be applied to many roles.

Here are some courses you can study in the first year of your degree:

- Science, Society and Me (SCIE101)
- Ecology, Evolution and Conservation (BIOL112)
- Cellular Biology and Biochemistry (BIOL111)
- Diversity of Life (BIOL113)
- Structure and Reactivity in Chemistry/Biochemistry or Foundations of Chemistry (CHEM112/114)
- Statistics (STAT101)
- Fundamentals of Management (MGMT100)
- Principles of Marketing (MKTG100)

Explore more course options at

[www.canterbury.ac.nz/study/qualifications-and-courses/](http://www.canterbury.ac.nz/study/qualifications-and-courses/)

**Transferable skills:** Ability to solve complex problems; critical thinking; cooperation, teamwork and leadership; innovative thinking; numeracy; report writing and statistical analysis.

**Postgraduate study options:** Bachelor of Sciences (Hons), Postgraduate Diploma in Science, Master of Science, Doctor of Philosophy.

**Career options:** biologist, biosecurity officer, biotechnology technician, data analyst, ecologist, environmental scientist, laboratory manager, quality manager, secondary school teacher, resource management consultant.