

## Make sense of it.

Statistics turns complex data into valuable information that can make a difference. It has the power to save lives, improve businesses and benefit our environment.

Study statistics at UC and learn how to:

- interpret and manipulate data
- process, visualise, communicate and extract value from data
- use statistics to answer big scientific, social and commercial questions

*“I want to engage in research regarding the modelling of large-scale biological data.”*

*– Callum, studying towards a BSc in Biological Sciences and Statistics with endorsements in Ecology and Environmental Science*



## Why statistics?

Data—information in a raw or unorganized form—is everywhere, but what can it tell us? That’s where statistics comes in.

Statistics shows you how to make meaningful sense of big data and reveal hidden insights. It can help reduce crime, protect endangered species, enhance consumer experiences, improve public health, and more.

## Where can it take me?

Almost everything generates data, from science to the social services. People who can understand, interpret and extract value from that data are in demand.

Statisticians are working everywhere from biology, medicine and business to physics, economics and engineering.



## Why UC Science?

At UC Science you decide where you're going – our job is to help you get there.

We offer heaps of options and flexibility, state-of-the-art facilities, amazing research opportunities (in the lab and the field), and passionate, world-recognised lecturers. Our campus is friendly, compact and based just on the edge of Christchurch city.

## BSc Statistics – what you need to know

### Entry requirements

University Entrance or equivalent

### Level of study

Undergraduate

### Useful Year 13 subjects

Calculus, statistics

### Start date

February

### Length of study

3 years

**Degree content includes:** Applied statistics, Bayesian inference, data collection and interpretation, data mining, multivariate statistical methods, random processes, statistical inference and computing, time series methods.

**Career options:** Actuary, banking, finance or insurance analyst, biostatistician, biometrician, data scientist, epidemiologist, market researcher, operations research analyst, statistical programmer, statistician, teacher.

**Find out more:** [www.math.canterbury.ac.nz](http://www.math.canterbury.ac.nz)

*Ask us about fast track to second year for high achievers, extra support to meet entry requirements, catch-up courses for new students and double-degree options.*



**Choose science. Change the world.**

Start now. [www.science.canterbury.ac.nz](http://www.science.canterbury.ac.nz)