

# COURSE DETAIL

## INTRODUCTION TO BIOSTATISTICS

**Country**

New Zealand

**Host Institution**

University of Otago

**Program(s)**

University of Otago

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Statistics

**UCEAP Course Number**

19

**UCEAP Course Suffix****UCEAP Official Title**

INTRODUCTION TO BIOSTATISTICS

**UCEAP Transcript Title**

INTRO BIOSTATISTICS

**UCEAP Quarter Units**

7.00

**UCEAP Semester Units**

4.70

## Course Description

Biostatistics (statistics applied in the health sciences) is a vital tool in the mission to improve health and well-being for all people. This course provides an introduction to the core principles and methods of biostatistics. The course provides understanding of how statistics is used to answer research questions: how to look for patterns in data and how to test hypotheses about disease causation and prevention and improvement in well-being. Topics covered include the nature of random variation, the concepts of bias and confounding, study design, data description including risks and odds, binomial and normal distributions, estimation, hypothesis testing, regression, the control of confounders, critical appraisal, and the analysis of variance.

## Language(s) of Instruction

English

## Host Institution Course Number

STAT115

## Host Institution Course Title

INTRODUCTION TO BIOSTATISTICS

## Host Institution Campus

Dunedin

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Mathematics & Statistics

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