

# BIOSTATISTICS

**GC** GRADUATE CERTIFICATE

**GD** GRADUATE DIPLOMA

**M** MASTER

## Duration

**GC** 6 months full-time or part-time equivalent

**GD** 1 year full-time or part-time equivalent

**M** (16 units) 1 year full-time or part-time equivalent

**M** (24 units) 1.5 years full-time or part-time equivalent

**Location** External

**Commencing** Semester 1 or 2

**Delivery mode** External

## Prerequisites

**GC** An approved degree including an introductory level statistics course

**GD** An approved degree or a Graduate Certificate in Biostatistics or equivalent and an introductory level statistics course

**M** (16 units) A four year degree (e.g. honours) with a major in statistics

**M** (24 units) An approved degree and an introductory level statistics course or a GDip in Biostatistics or equivalent

## International availability

**Yes**  
International students who wish to undertake this program will not qualify for a Student Visa. To study this program in Australia, international students must hold alternative Australian Visa/Residency status with a sufficient study entitlement. See Department of Immigration and Border Protection for further details. Alternatively, for programs available in 'External' mode, students may study from their home country.

**English proficiency** IELTS overall 6.5; reading 6; writing 6; speaking 6; listening 6 (or approved test)

## SAMPLE COURSES

**GC** Introduction to epidemiology  
Mathematical background for biostatistics  
Health indicators and health surveys

**GD** Bayesian statistical methods

Mathematical statistics

Clinical biostatistics

Linear models

**M** Design of randomised controlled trials

Categorical data and generalised linear models

Thesis in biostatistics



## TIMOTHY

Biostatistics graduate, Australia

“UQ’s supportive lecturers, practical teaching and valuable resources thoroughly prepared me for the work force after I graduated and I was able to step into my biostatistician role with confidence. UQ gave me the opportunity to connect with leaders in biostatistics as the program is formed as part of the Biostatistics Collaboration of Australia. The learnings and connections I made during my Master of Biostatistics at UQ will last a lifetime.”

## Why study Biostatistics at UQ?

Biostatistics uses data to measure, understand and solve medical problems. This exciting and versatile discipline contributes to all fields of medical research and evidence-based healthcare. In this program, you will develop critical analysis expertise, interpretation skills and the ability to apply relevant research findings.

UQ’s biostatistics program is part of the Biostatistics Collaboration of Australia and has been developed by Australia’s foremost biostatisticians. It combines mathematical theory with knowledge of the specific challenges arising in different areas of science, making it a rewarding field of study if you like maths and quantitative problems and want to contribute to the advancement of broader scientific understanding.

The program is enriched by the School of Public Health’s strong links with leading international agencies including Australian Aid, the World Bank and the World Health Organization (WHO), and its major public health projects with partners including Wellcome Trust, The Atlantic Philanthropies, the Bill and Melinda Gates foundation, National Health and Medical Research Council and the Australian Research Council.

## Career opportunities

Our graduates contribute to all fields of medical research and healthcare. If you enjoy collecting and studying information to forecast and draw conclusions, biostatistics could be your perfect health career.

As there is a shortage of skilled biostatisticians in Australia and around the

world, our graduates are in high demand in the public health sector, medical research and the pharmaceutical industry.

With postgraduate biostatistics qualifications, you can create positive change in the health sector in the field, research, academia or government in a variety of roles such as:

- compiling data for a longitudinal study on Australian women’s health
- interpreting results of a study of air quality near a bus tunnel in Seattle
- monitoring and evaluating data on infections in hospitals in the United Kingdom
- working at a global pharmaceutical company, analysing the efficacy of a potential new drug to treat HIV.

## Accreditation

Graduates may be accredited by an official industry accreditation body in Australia, such as the Statistical Society of Australia Inc. Completion does not automatically result in graduates receiving accreditation. Please contact the Statistical Society of Australia Inc for details of any accreditation conditions.



## For more information

School of Public Health

[www.public-health.uq.edu.au](http://www.public-health.uq.edu.au)

**P** +61 7 3365 5345

### International students:

**P** Outside Australia:

+61 3 8676 7004

Within Australia (free call):

1800 671 980

**E** [study@uq.edu.au](mailto:study@uq.edu.au)