



THE UNIVERSITY OF QUEENSLAND

Course title: PUBH7630 Introduction to Biostatistics

Course Coordinator: Dr Abdullah Al Mamun & Prof. Gail Williams

Mode: Internal and External

Course Introduction:

This core course introduces you to biostatistics, one of the basic disciplines underpinning the practice of health care and health research at all levels, health evaluation, and disease prevention. Biostatistics is the science of describing, summarising and analysing health data. An understanding of the methods of biostatistics is a necessary prerequisite to the design and conduct of health studies. This course complements [PUBH7600 Introduction to Epidemiology](#).

Course aims

This course demonstrates the fundamental importance of biostatistics to both health research and the practice of health care. You will learn the fundamental principles and methods used in biostatistics and how they are used in practice.

Course Content:

This course demonstrates the fundamental importance of biostatistics to both health research and the practice of health care. You will learn the principles and methods used in biostatistics and how they are used in practice. Specific topics include: populations and samples, data summary and presentation, sampling variability and complex sampling, basic data analysis, and sample size estimation. Course activities include regular statistical computing exercises in parallel with the learning modules. The exercises use the statistical packages *Epi Info* and *Stata*.

Method of Assessment:

Assessment is by assignments on problem sets and exercises, data analysis and an examination.

Recommended Texts:

Kirkwood, BR & Stone, JAC (2003), *Essential Medical Statistics*, 2nd ed., London: Blackwell.

Bland, M (2000), *An Introduction to Medical Statistics* 3rd ed., Oxford: Oxford University Press.

Resources:

The Study Guide contains week-by-week learning materials. These include learning objectives, lecture notes, required readings and practical exercises.

An online Blackboard site provides the interactive environment for students and teachers. Reliable and regular access to the Internet is essential.

Further details are provided in the [Course Profile](#).

http://www.uq.edu.au/study/course.html?course_code=PUBH7630