



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

Course Title **PUBH7611 Principles of Epidemiology**

Course Co-ordinator: [Dr Michael Coory](#)

Mode: Internal and External

Course Introduction:

This intermediate level course explores the fundamental concepts, research designs, analytic strategies and modes of data interpretation of epidemiology. You must already have a basic knowledge of epidemiology and biostatistics, at the level of the core courses [PUBH7600 Introduction to Epidemiology](#) and [PUBH7630 Introduction to Biostatistics](#).

Course Aims:

This course enables you to develop a coherent understanding of the principles of epidemiology in relation to a basic model of causality and apply these principles to the practice of epidemiology and public health.

Course Content:

Specific topics include: notions of causality, measuring disease occurrence and causal effects, random error and the role of statistics, epidemiological study designs: case-control, cohort, and experimental, biases in epidemiological study design, epidemiology in clinical settings, critical appraisal, epidemiological data analysis, measuring interactions.

Method of Assessment

Assessment is by assignments consisting of short answer questions and exercises and an online examination.

Required Text:

Rothman K. *Epidemiology: An Introduction*. Oxford: Oxford University Press 2002

Resources:

Study Guide: This contains the week-by-week learning materials for each module. These include learning objectives, required readings, an introduction, a brief synopsis and key definitions, case studies, and a series of practical exercises.

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

You will require access to the software Microsoft *Excel*.

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

http://www.uq.edu.au/study/course.html?course_code=PUBH7611