

# University of Pretoria Yearbook 2016

## Environmental epidemiology 870 (EOM 870)

**Qualification** Postgraduate

**Faculty** [Faculty of Health Sciences](#)

**Module credits** 10.00

**Programmes** [MSc Epidemiology](#)

[MSc Public Health](#)

**Prerequisites** HME 870, BOS 870

**Contact time** 16 lectures per week, 1 practical per week

**Language of tuition** English

**Academic organisation** School of Health Syst & Public

**Period of presentation** Year

### Module content

This module is an introduction of the various types of epidemiological study designs that are applied in the investigation of the association between environmental exposures and health outcomes. Apart from the classical epidemiological study designs (cross-sectional, case-control and cohort designs that are introduced in HME 870), other study designs such as the time-series, case-crossover, panel, spatial, genetic and molecular study designs are introduced and discussed. The statistical techniques that are applied in the time-series, case-crossover, panel, spatial, genetic and molecular study designs are discussed as well as the implication of random and systematic errors in exposure/health assessment on the measures of associations; hence a basic biostatistics vocabulary (introduced in BOS 870) is required.

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.