

# PUBH 2010 EPIDEMIOLOGY

Credit Points 10

Legacy Code 300872

**Coordinator** Arua Kalu ([https://directory.westernsydney.edu.au/search/name/Arua Kalu/](https://directory.westernsydney.edu.au/search/name/Arua%20Kalu/))

**Description** Epidemiology is an analytical science concerned with the distribution and determinants of health-related states in populations, aimed at the management of health problems. Epidemiology is not limited to controlling epidemics but assesses and manages physical, mental and social well-being in living, working and recreational environments. The subject introduces identification and understanding of risk factors for health and disease, and assists the student to develop an investigation protocol for assessing a specific health state within their own field of interest. This addresses career needs for a range of health studies while introducing the epidemiological analytical approach to risk assessment and research.

**School** Science

**Discipline** Epidemiology

**Student Contribution Band** HECS Band 2 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 2 subject

**Equivalent Subjects** PUBH 2009 - Epidemiology

**Restrictions**

Successful completion of 60 credit points

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. describe the basic function and role of epidemiology at a local and international level
2. integrate the epidemiological method into their own disciplinary area, such as environmental health, medical science, animal science, nutrition and food, occupational health and safety, forensic science
3. conduct rapid epidemiological assessments of health states using regression analysis, association analysis and epidemiological risk assessment to identify the nature and relative importance of local risk factors for health and disease
4. carry out the sourcing, collection, classification and cleaning of data to eliminate different types of bias and inaccuracy
5. design a survey with relevant standardised measuring instruments such as questionnaires with epidemiological contr

## Subject Content

1. Basic epidemiological concepts
2. The development of modern epidemiology
3. International and large area epidemiology/health surveillance
4. Rapid epidemiological assessment: regression analysis, association analysis, and risk analysis
5. Methods of collecting quality data for small area studies: data sourcing and supplementation through methods such as surveys and technical studies
6. Study design and sampling

7. Graphical representation of contributory and risk factors associated with selected health states
8. The structure and use of an epidemiological investigation protocol

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

| Type         | Length         | Percent | Threshold | Individual/Group Task |
|--------------|----------------|---------|-----------|-----------------------|
| Short Answer | 1,000 words    | 30      | N         | Individual            |
| Proposal     | 3,000 words    | 50      | N         | Individual            |
| Quiz         | 2 x 20 minutes | 20      | N         | Individual            |

### Prescribed Texts

- Bonita, R., Beaglehole, R. and Kjellstrom, T., 2006. Basic Epidemiology, 2nd ed., WHO, available at [http://whqlibdoc.who.int/publications/2006/9241547073\\_eng.pdf](http://whqlibdoc.who.int/publications/2006/9241547073_eng.pdf)

### Teaching Periods

## Autumn (2024)

### Online

#### Online

**Subject Contact** Arua Kalu ([https://directory.westernsydney.edu.au/search/name/Arua Kalu/](https://directory.westernsydney.edu.au/search/name/Arua%20Kalu/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=PUBH2010\\_24-AUT\\_ON\\_2#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=PUBH2010_24-AUT_ON_2#subjects))