

# PUBH 7010 EPIDEMIOLOGY OF NON-COMMUNICABLE DISEASES

**Credit Points** 10

**Legacy Code** 401174

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

**Description** This unit will document the fundamental concepts in epidemiology and control of non-communicable diseases (NCDs), common research methods used in NCD epidemiology, and unique applications of these methods in key NCD areas, including reproductive epidemiology, behavioural epidemiology, epidemiology of ageing and epidemiology of specific NCDs (including cardiovascular disease, diabetes, cancer, chronic respiratory diseases, musculoskeletal problems and mental health problems). The principal goals of this unit are to provide a broad overview of the field, and to develop the knowledge and skills needed to (i) critically evaluate published research in NCD epidemiology and (ii) design an epidemiological study to address an NCD topic.

**School** Medicine

**Discipline** Epidemiology

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

**Level** Postgraduate Coursework Level 7 subject

**Co-requisite(s)** PUBH 7016 OR PUBH 7015

**Restrictions**

Students must be enrolled in a postgraduate program.

## Learning Outcomes

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

1. Describe the burden of non-communicable diseases (NCDs) and how this varies among population subgroups and countries
2. Explain the conceptual basis for a life-course approach to NCDs
3. Identify social, environmental, behavioural and biological risk factors for NCDs
4. Discuss approaches to the prevention and control of NCDs
5. Identify unique issues in the epidemiology of specific NCDs
6. Review and critically evaluate epidemiological studies of NCDs
7. Formulate research questions in the epidemiology and control of NCDs and identify suitable methods for investigating these
8. Design an epidemiological study to address an NCD topic

## Subject Content

1. Introduction to epidemiology of non-communicable diseases (NCDs)
2. Life-course approach to NCDs
3. Approaches to prevention and control of NCDs
4. Behavioural epidemiology
5. Epidemiology of neurological disease
6. Epidemiology of cardiovascular disease and diabetes
7. Epidemiology of mental disorders
8. Epidemiology of cancer
9. Epidemiology of chronic respiratory and musculoskeletal diseases

10. Epidemiology of ageing

## 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.

Item	Length	Percent	Threshold	Individual/Group Task
Participation	Weekly participation in face to face tutorials or online discussion boards (200 words per week) based on mode of enrolment	20	N	Individual
Quiz	4 quizzes, each of 30 minutes	20	N	Individual
Applied Project	3,000 words	60	N	Individual

**Prescribed Texts**

- Remington PL, Brownson RC, Wegner MV (eds.) Chronic Disease Epidemiology and Control. 3rd ed. Washington: American Public Health Association; 2010.

**Teaching Periods**

## Autumn

### Online

#### Online

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=PUBH7010\\_22-AUT\\_ON\\_O#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=PUBH7010_22-AUT_ON_O#subjects))

### Parramatta - Victoria Rd

#### Day

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View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=PUBH7010\\_22-AUT\\_PS\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=PUBH7010_22-AUT_PS_D#subjects))