

# PUBH 7010 EPIDEMIOLOGY OF NON-COMMUNICABLE DISEASES

Credit Points 10

Legacy Code 401174

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

**Description** This subject 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 subject 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

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** 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. Epidemiology of neurological disease

5. Epidemiology of cardiovascular disease and diabetes
6. Epidemiology of mental disorders
7. Epidemiology of cancer
8. Epidemiology of chronic respiratory and musculoskeletal diseases
9. 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.

Type	Length	Percent	Threshold	Individual/ Group Task	Mandatory
Participation	Weekly Participation in Face to Face or Online Tutorials	20	N	Group/ Individual	Y
Presentatio	15 minutes	30	N	Group	Y
Report	1500 words	50	N	Individual	N

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 (2025)

### Online

#### Online

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=PUBH7010\\_25-AUT\\_ON\\_2#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=PUBH7010_25-AUT_ON_2#subjects))

### Parramatta - Victoria Rd

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=PUBH7010\\_25-AUT\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=PUBH7010_25-AUT_PS_1#subjects))