



HLTH13031 Population Health Epidemiology

Term 3 - 2018

Profile information current as at 27/04/2024 10:05 am

All details in this unit profile for HLTH13031 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

This unit explores the importance and role of epidemiology as an approach to both public health and clinical practice. You will be able to use evidence from epidemiological investigations, to understand the distribution of health outcomes in populations and understand the influence of factors that determine this distribution. The critical function of epidemiology will be reviewed including areas of anticipated needs, identified risk conditions, definition of priorities and the use of available resources for planning and administering health care services.

Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Prereq: 72 credit points (any tertiary level units)

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 3 - 2018

- Distance

Attendance Requirements

All on-campus students are expected to attend scheduled classes - in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Group Discussion**

Weighting: 25%

2. **Presentation**

Weighting: 25%

3. **Written Assessment**

Weighting: 50%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Unit evaluation

Feedback

Release of material was not timely.

Recommendation

Although I think comments about this may have come from students who mistakenly believed that material released on the Thursday or Friday was late- it was for the following week- there were times when the tutorial questions were not made available at the start of the week. The reasoning behind this is that tutorials require the application of the week's unit material to a problem or activity and so students need to cover that material before starting to work on the tutorial questions. Consider releasing tutorial questions at the same time as study material in future to anticipate these complaints.

Feedback from Unit evaluation

Feedback

Video lectures were not good quality- audio was usually very low.

Recommendation

Re-record video lectures and ensure audio is enhanced.

Feedback from Personal reflection/unit delivery

Feedback

Face to face tutorials not attended and majority of students participated in asynchronous tutorial.

Recommendation

Offer a second Zoom tutorial so that more students are able to attend synchronously.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Calculate and communicate epidemiological statistics relating to the measurement of health, wellness and disease.
2. Interpret epidemiological data within theories and frameworks of social justice and cultural diversity for effective knowledge transfer and exchange.
3. Evaluate epidemiological investigations and sources of epidemiological data to identify inequities, enable change and advocate for health.
4. Argue for a population health outcome using relevant research methods and approaches.
5. Explain principles of data confidentiality and disclosure, and apply the ethical use of data.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Presentation - 25%	•	•			

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
2 - Group Discussion - 25%			•	•	•
3 - Written Assessment - 50%	•	•	•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Communication	•	•	•	◦	◦
2 - Problem Solving	•	•	•	◦	
3 - Critical Thinking	•	•	•	◦	
4 - Information Literacy	•	•	•		
5 - Team Work					
6 - Information Technology Competence	•	•			
7 - Cross Cultural Competence		•	•		•
8 - Ethical practice		•	•		◦
9 - Social Innovation				•	
10 - Aboriginal and Torres Strait Islander Cultures					

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Presentation - 25%	•	•	•	•		•		•		
2 - Group Discussion - 25%	•		•	•		•	•			

Textbooks and Resources

Textbooks

HLTH13031

Prescribed

Introduction to Epidemiology

Edition: 2nd (2011)

Authors: Ilona Carneiro and Natasha Howard

Open University Press

Maidenhead , Berkshire , England

ISBN: 13:978-0-33-524461-4

Binding: Paperback

Additional Textbook Information

Introduction to Epidemiology (2nd edition) is available as a free eBook via [CQUniversity Library](#)

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

All submissions for this unit must use the referencing styles below:

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Lisa Bricknell Unit Coordinator

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Sarah Mcnicol Unit Coordinator

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Schedule

Week 1 - 05 Nov 2018

Module/Topic	Chapter	Events and Submissions/Topic
Frameworks for determinants of population health	Chapter 1 of Carneiro & Howard	Tutorial

Week 2 - 12 Nov 2018

Module/Topic	Chapter	Events and Submissions/Topic
Measuring the occurrence of disease	Chapter 2 of Carneiro & Howard	Tutorial

Week 3 - 19 Nov 2018

Module/Topic	Chapter	Events and Submissions/Topic
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Estimating risk and measures of association	Chapter 3 of Carneiro & Howard	Tutorial
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Week 4 - 26 Nov 2018

Module/Topic	Chapter	Events and Submissions/Topic
Sources of health data and measures of other health outcomes	Chapter 4 of Carneiro & Howard CRO Buttner and Muller	Tutorial Workbook A Due: Week 4 Monday (26 Nov 2018) 9:00 am AEST

Vacation Week - 03 Dec 2018

Module/Topic	Chapter	Events and Submissions/Topic
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Week 5 - 10 Dec 2018

Module/Topic	Chapter	Events and Submissions/Topic
Epidemiological research design and ethics	Chapter 5 Carneiro & Howard	Tutorial

Week 6 - 17 Dec 2018

Module/Topic	Chapter	Events and Submissions/Topic
Ecological and cross sectional studies	Chapter 6 and 7 of Carneiro & Howard	Tutorial

Week 7 - 31 Dec 2018

Module/Topic	Chapter	Events and Submissions/Topic
Cohort and case control studies	Chapter 8 & 9 of Carneiro & Howard	Tutorial Presentation Due: Week 7 Thursday (3 Jan 2019) 9:00 am AEST

Week 8 - 07 Jan 2019

Module/Topic	Chapter	Events and Submissions/Topic
Intervention studies and randomised control trials	Chapter 10 of Carneiro & Howard	Tutorial

Week 9 - 14 Jan 2019

Module/Topic	Chapter	Events and Submissions/Topic
Qualitative studies	Selected readings and course materials	Tutorial

Week 10 - 21 Jan 2019

Module/Topic	Chapter	Events and Submissions/Topic
Summary measures of population health and evidence reviews	Selected readings and course materials	Tutorial Workbook B Due: Week 10 Monday (21 Jan 2019) 9:00 am AEST

Week 11 - 28 Jan 2019

Module/Topic	Chapter	Events and Submissions/Topic
Using epidemiology for prevention and surveillance	Chapter 11 and 12 of Carneiro & Howard	Tutorial

Week 12 - 04 Feb 2019

Module/Topic	Chapter	Events and Submissions/Topic
Epidemiological evidence and public health policy	Selected readings and course materials	Tutorial

Exam Week - 11 Feb 2019

Module/Topic	Chapter	Events and Submissions/Topic
		Funding application Due: Exam Week Monday (11 Feb 2019) 9:00 am AEST

Term Specific Information

There is a new edition of the set textbook (third edition) now available incorporating significant changes to the contents. **This unit uses the second edition** but the CQU Bookshop has been unable to source sufficient copies. Students are able to access the text in electronic format for free from the CQU Library. Should you wish to purchase the book, you can purchase your own copy in electronic format from Google Books at <https://books.google.com.au/books?id=SUJFBgAAQBAJ> or from other online booksellers. Alternatively, you may be able to purchase a second hand copy from students who studied HLTH13031 in T1 2018 or find a copy online. The Unit content will be updated to match the new edition (or a new textbook) for T1 2019.

Assessment Tasks

1 Tutorial Workbook

Assessment Type

Group Discussion

Task Description

Task

Complete a series of structured tutorial tasks addressing important epidemiological concepts and a range of epidemiological study designs. A Zoom tutorial and online discussion forum will be held each week examining each task. Students can choose to attend the tutorial online via Zoom, or through the forum for guidance in completing their tutorial activities.

Workbook A: due Monday of Week 4 (15%)

Workbook B: due Monday of Week 10 (10%)

Assessment Due Date

Workbook A due Monday of Week 4. Workbook B due Monday of Week 10.

Return Date to Students

Workbook A returned Monday of Week 5; Workbook B returned Monday of Week 12.

Weighting

25%

Assessment Criteria

This task will be assessed against the following criteria:

1. Comprehension and understanding of the topic (30%)
2. Relevance (30%)
3. Critical thinking and depth (30%)
4. Quality of expression and referencing (10%)

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

Submission

Online

Learning Outcomes Assessed

- Evaluate epidemiological investigations and sources of epidemiological data to identify inequities, enable change and advocate for health.
- Argue for a population health outcome using relevant research methods and approaches.
- Explain principles of data confidentiality and disclosure, and apply the ethical use of data.

Graduate Attributes

- Communication
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence

2 Presentation

Assessment Type

Presentation

Task Description

Scenario

You are working for the Public Health Department of your local area. Your work area needs to provide a 15 minute presentation to the health department to critically outline the population health impact for one of the following health issues for the Australian population. Your manager has asked you to record your presentation and send it to them to check and provide feedback. They also want you to email your slides and notes for checking.

Topics

- The impact of loneliness on older Australians
- The impact of mosquito borne diseases in Australia
- The impact of diabetes on oral health outcomes in Australia
- The impact of workplace accidents on young males in the construction industry in Australia
- The impact of falls in older Australians living in the community
- The impact of binge drinking in Australia
- The impact of male suicide in Australia
- The impact of food security on Australian households

Task

Your task is to create and record a 15 minute presentation that describes the population level impact a given health issue for the Australian population. You will need to source, interpret, and communicate current evidence using appropriate epidemiological measures. Upload the recording (or a link to the recording) to Moodle with a copy of the slides and notes by the due date. If you would like to examine a different topic (for example something related to your current work integrated learning unit or an area of interest related to your employment), please email the unit coordinator for approval before commencing work.

Your presentation needs to include:

- A clear introduction to the health issue, justifying why it is important.
- The use of a range of appropriate epidemiological measures to critically demonstrate the impact the issue has on:
 - the Australian population as a whole, and
 - within and between different population groups of relevance to the health issue (differential impact). For example, age, gender, geographic location, cultural identity, occupation.
- Data visualisation that contributes to the effective communication of the issue.
- A clear and concise conclusion that links to the introduction and contents of the presentation.

Assessment Due Date

Week 7 Thursday (3 Jan 2019) 9:00 am AEST

Return Date to Students

Week 9 Monday (14 Jan 2019)

Weighting

25%

Assessment Criteria

You will be assessed on:

- Introduction (5%)
- Organisation and structure (15%)
- Presentation skills (10%)
- Quality of visual aids (5%)
- Understanding and use of epidemiological data (30%)
- Reasoning and support of claims or arguments (30%)
- Referencing (5%)

A detailed marking rubric is available on the unit Moodle site.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Students are to upload two files to the Moodle site. One will be the recording of the presentation (or a link to the recording posted to an external site such as YouTube or Google Drive). The other will be the slides and notes.

Learning Outcomes Assessed

- Calculate and communicate epidemiological statistics relating to the measurement of health, wellness and disease.
- Interpret epidemiological data within theories and frameworks of social justice and cultural diversity for effective knowledge transfer and exchange.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Ethical practice

3 Funding application

Assessment Type

Written Assessment

Task Description

Scenario

The manager of the Public Health Unit you are working for was impressed by your presentation and now wants to conduct an intervention study addressing the issue. She has identified an appropriate grant opportunity and wants to apply for funding to support the research.

Task

Your task is to prepare an application requesting funding for a population level intervention addressing the topic you used for your Presentation task. You will need to use the application format provided on Moodle, which requires an evaluation of the literature to propose an evidence based approach. A template for the application and other resources are provided on Moodle, with guidelines for each section and word limits. If you'd wish to change your topic from the one used previously, contact the Unit Coordinator.

Assessment Due Date

Exam Week Monday (11 Feb 2019) 9:00 am AEST

Return Date to Students

Following Certification of Grades.

Weighting

50%

Minimum mark or grade

Students must pass this assessment task in order to achieve an overall passing grade for the Unit.

Assessment Criteria

Students will be assessed on:

- the communication of ideas (25%)
- the breadth of reading and knowledge of the topic (25%)
- the quality of their analysis (35%)
- the appropriate and effective use of referencing (15%)

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [Harvard \(author-date\)](#)

Submission

Online

Learning Outcomes Assessed

- Calculate and communicate epidemiological statistics relating to the measurement of health, wellness and disease.
- Interpret epidemiological data within theories and frameworks of social justice and cultural diversity for effective knowledge transfer and exchange.
- Evaluate epidemiological investigations and sources of epidemiological data to identify inequities, enable change and advocate for health.
- Argue for a population health outcome using relevant research methods and approaches.
- Explain principles of data confidentiality and disclosure, and apply the ethical use of data.

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem