

**Curtin University**<https://handbook.curtin.edu.au>

Foundations of Biostatistics and Epidemiology

EPID1000 Commencing 1 July 2020

Version 1 (1 Jul 2020 - onward)

Area

Curtin School of Population Health (1279)

Field of Education

061311 Epidemiology

Credits

25

Contact hours

2

Result type

Grade/Mark

Syllabus

Foundations of Biostatistics and Epidemiology enables students to learn core skills in epidemiology and biostatistics. Students critically appraise public health and clinical epidemiological research literature and perform basic statistical analysis. Students will encounter basic statistical and graphical description and analysis of epidemiological and biomedical data with appropriate graphs, tables, and summary measures; statistical inference and statistical hypothesis testing applied to problems in health and clinical medicine using parametric and non-parametric tests; calculation of common epidemiological measures of disease frequency and association such as incidence rate, prevalence, attributable risk, risk ratios and odds ratio; role and significance of inferential statistics such as confidence intervals and probability values. Various epidemiological research designs and their strengths and limitations as well as threats to the internal validity; role of chance, bias and confounding are included.

Tuition patterns

The tuition pattern provides details of the types of classes and their duration. This is to be used as a guide only. Precise information is included in the unit outline.

Type	Duration
Online Lecture	1 x 1 hour weekly
Tutorial	1 x 1 hour weekly
Computer Laboratory	1 x 1 hour weekly

Further Information

The ability to use basic statistical as well as epidemiological tools is essential for the evaluation of health and medical research literature and for the conduct of research in public health medicine and other allied health disciplines.

Location and delivery

For start dates, please view the [academic calendar](https://students.curtin.edu.au/essentials/academic-calendar/) (<https://students.curtin.edu.au/essentials/academic-calendar/>).

Curtin Perth



2021

Semester 1

Fully Online
Internal

Semester 2

Fully Online
Internal

2022

Semester 1

Fully Online
Internal

Semester 2

Fully Online
Internal

2023**Semester 1**

Fully Online
Internal

Semester 2

Fully Online
Internal

2024**Semester 1**

Fully Online
Internal

Semester 2

Fully Online
Internal

Partially Online Internal refers to some (a portion of) learning provided by interacting with or downloading pre-packaged material from the Internet but with regular and ongoing participation with a face-to-face component retained. Excludes partially online internal course/units run through the Curtin Bentley-based Distance Education Area which remain Central External

Fully Online refers to the main (larger portion of) mode of learning provided via Internet interaction (including the downloading of pre-packaged material on the Internet). Excludes online course/units run through the Curtin Bentley-based Distance Education Area which remain Central External

Information for international students

If you are an international student studying on a student visa, you must undertake a full-time load in each study period. There may be additional admission criteria that must be met. For more information, you can refer to the [International Students'](https://international.curtin.edu.au/) (<https://international.curtin.edu.au/>) website. If you do not hold a student visa or are studying outside of Australia, you have the option to study full-time, part-time and/or fully online depending on course and unit availabilities as well as your in-country visa requirements.

Acknowledgement of inherent requirements

I understand that all Curtin courses have compulsory and other core capabilities that are essential for demonstrating the achievement of course learning outcomes and graduation. If I am unable to meet or demonstrate those requirements, now or in later during my studies, reasonable adjustments will be sought by the University wherever possible to facilitate alternative ways of achieving of those requirements. If reasonable adjustments cannot be accommodated, Curtin will discuss study options to find an alternative course of study or an exit degree.

Student rights and responsibilities

As a Curtin University student, you are part of the Curtin community and as such, you have rights and responsibilities. Some relate to your work as a student, such as

academic integrity and copyright. Others relate to your use of resources and the way you behave around other students. Students are expected to abide by the University's statutes, rules, by-laws, policies and procedures (https://policies.curtin.edu.au/legislation/statutes_rules.cfm) as amended from time to time. You can find further information about your rights and responsibilities (<https://students.curtin.edu.au/essentials/rights/>) on the Student Essentials website.

Disclaimer of liability

You can access the full disclaimer of liability (<https://www.curtin.edu.au/disclaimer-of-liability/>) on the Study website.