Overview

Sophisticated modelling techniques are essential for the analysis of real-world health data. Building on Health Data Analytics: Statistical Modelling I (HDAT9600), this course expands the statistical toolkit and broadens students' understanding of relevant statistical approaches for the analysis of realistically complex data structures and research questions. The course is aimed at those currently working or planning on working in health or a health-related field, and who are interested in applying advanced statistical methods to analyse complex data.

Topics covered in this course include multilevel models for hierarchical data; analysis of time series and longitudinal data; quasi-experimental approaches for drawing causal inferences from observational data; multiple imputation for missing values; and simulation approaches for study planning and model evaluation.

Content is delivered through a combination of online readings, expert guest lectures and practical hands-on tutorials. Statistical concepts are illustrated with a variety of health examples, and students will learn how to implement methods using leading statistical software. Lectures are followed by weekly exercises, which reinforce the learning and programming skills covered in the face-to-face tutorials.
Faculty
Faculty of Medicine

School
School of Medical Sciences

Study Level
Postgraduate

Offering Terms
Term 3

Campus
Kensington

Delivery Mode
Partially online

Indicative contact hours
3

Timetable
Visit timetable website for details
Conditions for Enrolment

Prerequisites: HDAT9200 AND HDAT9600
Course Outline

To access course outline, please visit:

HDAT9700 Course Outline
Fees

<table>
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<tr>
<th>Category</th>
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<tr>
<td>Commonwealth Supported Students</td>
<td>$1395</td>
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<tr>
<td>Domestic Students</td>
<td>$3960</td>
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<td>International Students</td>
<td>$4890</td>
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**DISCLAIMER**
Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the fee website.

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty. Fees for courses delivered through UNSW Global are published and charged by UNSW Global and thus appear as "Not Applicable" on this site.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
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Authorised by Deputy Vice-Chancellor (Academic)
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