Overview

This course provides a sound grounding in the theory and practice of fitting statistical regression models, with particular focus on the flexibility of generalised linear models (GLMs). Starting with linear regression, a major theme of the course is best practice in model fitting, including thorough exploratory data analysis, model assumption checking, data preparation and transformation, including the use of imputation, and careful attention to model adequacy and diagnostics. Emphasis is given to content-aware, purposive model building and the use of Directed Acyclic Graphs (DAGs) of causal relations to inform model parameter selection. Non-linear, logistic, binomial and Poisson models for count data are also covered. Effect modifications (interactions) and their meaning in a health context are explored. The presentation and visualisation of statistical models is considered, with emphasis on the explanatory insights that can be gained from well-constructed models. The final part of the course covers basic time-series models, survival analysis and other time-to-event models.
**Faculty**
Faculty of Medicine

**School**
School of Medical Sciences

**Study Level**
Postgraduate

**Offering Terms**
Term 2

**Campus**
Kensington

**Delivery Mode**
Partially online

**Indicative contact hours**
3

**Timetable**
Visit timetable website for details
Conditions for Enrolment

Prerequisite: HDAT9200
Course Outline

To access course outline, please visit:

HDAT9600 Course Outline
Fees

**Commonwealth Supported Students**  $1395  
**Domestic Students**  $3960  
**International Students**  $4890

**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.

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)
CRICOS Provider Code 00098G
ABN: 57 195 873 179