Overview

Health data is often complex and noisy. Obtaining actionable insights (or revealing the hidden signals) from such data requires the utilisation of probabilistic concepts. Thus a solid understanding of the principles of statistics is intrinsic to Health Data Science. The aim of this first course in probability theory is to introduce the foundations required to understand such phenomena.

The course design is highly innovative and novel. Statistical computing is used to gain a sound understanding of statistical theories and concepts. Specifically, this course draws on the practical application of Monte Carlo algorithms, which are a very effective method of statistical computing. Once this illustrative approach has (a posteriori) demonstrated a theory, it will then be stated formally.

The core content will be delivered through a flipped approach utilising audio-visual excerpts on the Moodle TELT platform, supported by presentations from Centre for Big Data Research in Health (CBDRH) experts. Statistical computing will be used as the process that drives the content. Peer instruction via discussion during face-to-face sessions will offer support in the form of collaborative learning. Active participation will be encouraged throughout, along with a reflective outlook.
Faculty
Faculty of Medicine

School
School of Medical Sciences

Study Level
Postgraduate

Offering Terms
Term 1

Campus
Kensington

Delivery Mode
Partially online

Indicative contact hours
3

Timetable
Visit timetable website for details
Course Outline

To access course outline, please visit:

HDAT9200 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. 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)
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179