Overview

The theory of stochastic processes deals with phenomena evolving randomly in time and/or space, such as prices on financial markets, air temperature or wind velocity, spread of diseases, number of hospital admissions in certain area, and many others. This course introduces some of the basic ideas and tools to study such phenomena. In particular, we will introduce a concept of martingale to study phenomena evolving in discrete time and the concept of Poisson process (and its generalizations) and Brownian Motion to study processes evolving continuously in time. Some applications to statistical inference will also be discussed. Pre-requisites: 24 units of level III mathematics or a degree in a numerate discipline or permission of the Head of Department.
Faculty
Faculty of Science

School
School of Mathematics & Statistics

Study Level
Postgraduate

Offering Terms
Term 1

Campus
Kensington

Delivery Mode
Fully on-site

Indicative contact hours
4

Timetable
Visit timetable website for details
Course Outline

To access course outline, please visit:

MATH5835 Course Outline
Fees

Commonwealth Supported Students $1170
Domestic Students $3900
International Students $5400

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.

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