Overview

The course surveys the major areas of bioinformatics, exploring the history of bioinformatics in relation to advances in computing hardware and software; the biological problems currently being addressed using bioinformatics; and future applications of bioinformatics. Major topics include genomics; genome sequencing projects; proteomics; structural genomics; systems biology; phylogeny; medical informatics; and commercial applications of bioinformatics. The general nature of the data, computational problems and the approaches employed will be discussed in each case. Bioinformatics will be discussed both as a scientific discipline and as an engineering discipline. The course will also explore the role of bioinformatics in the biotechnology and pharmaceutical industries and ethical issues associated with biological data. Lectures are supplemented by practical exposure to public and commercial bioinformatics web sites and to commonly used bioinformatics software.
Faculty
Faculty of Engineering

School
School of Computer Science and Engineering

Study Level
Undergraduate

Offering Terms
Term 3

Campus
Kensington

Indicative contact hours
5

Timetable
Visit timetable website for details
Conditions for Enrolment

Prerequisite: BABS1201 OR DPST1051
Exclusion Courses

BINF1001  |  6 UOC
Bioinformatics 1
Course Outline

To access course outline, please visit:

BINF2010 Course Outline
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