BINF90004 Bioinformatics Case Studies

Credit Points:	12.5
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 36 hours. Two one hour lectures and one 1 hour practical in a computer lab per week Total Time Commitment: 120 hours
Prerequisites:	Completion of first year of the M.Sc.(Bioinformatics) Research Training stream.
Corequisites:	This subject is only available to students enrolled in the bioinformatics stream of the MSc.
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability
Coordinator:	Prof Michael Goddard
Contact:	**meg@unimelb.edu.au (mailto:meg@unimelb.edu.au)**
Subject Overview:	Bioinformatics is a diverse discipline that draws on a range of technical areas and is applied to a range of biological problems. In this subject a series of case studies is used to illustrate the application of bioinformatics to biological,agricultural, and medical problems. These case studies will be directly based on current practical research and taught by the researchers.
Learning Outcomes:	An understanding of and experience in applying bioinformatics tools to real problems in biology and medicine.
Assessment:	Essay 40% A 1000 word report on an experimental investigation in bioinformatics. To be submitted mid to late semester. Exam 50% A 3 hour exam in the normal exam period. Seminar 10%. A 10 minute seminar given during the semester.
Prescribed Texts:	None
Recommended Texts:	None
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Analysing a problem to understand what data and analysis is needed to solve the problem.

	Analytical skills – the ability to construct and express a logical argument and to work in abstract or general terms. Communication skills in presenting results and arguments to peers.
Related Course(s):	Master of Science (Bioinformatics)