

## BINF90004 Bioinformatics Case Studies

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	2012, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 36 hours. Two one hour lectures and one 1 hour practical in a computer lab per week Total Time Commitment: 120 hours
<b>Prerequisites:</b>	Completion of first year of the M.Sc.(Bioinformatics) Research Training stream.
<b>Corequisites:</b>	This subject is only available to students enrolled in the bioinformatics stream of the MSc.
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Coordinator:</b>	Prof Michael Goddard
<b>Contact:</b>	Email: <a href="mailto:meg@unimelb.edu.au">meg@unimelb.edu.au</a> ( <a href="mailto:meg@unimelb.edu.au">mailto:meg@unimelb.edu.au</a> )
<b>Subject Overview:</b>	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.
<b>Objectives:</b>	An understanding of and experience in applying bioinformatics tools to real problems in biology and medicine.
<b>Assessment:</b>	Essay 40% A 4000 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.
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	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.
<b>Related Course(s):</b>	Master of Science (Bioinformatics)