652-215 Genes and Genomes

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 48 lectures and problem classes (four per week) Total Time Commitment: 120 hours
Prerequisites:	Biology 650-141 and 650-142 (prior to 2004: 600-141 and 600-142).
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
Coordinator:	Associate Professor M Davis & Dr J Golz
Subject Overview:	Upon completion of this subject, students should have: # an understanding of the molecular basis of gene structure, expression and regulation in prokaryotes and eukaryotes; # an understanding of DNA replication, recombination and mutagenesis; # an appreciation of the organisation of genomes in a variety of organisms and the nature of molecular evolution; and # the skills to solve problems and analyse data using a genetic approach. The subject provides an introduction to the molecular basis of gene structure and expression in prokaryotes and eukaryotes; the processes of DNA replication, mutation and recombination; the molecular tools of gene isolation and analysis; and molecular evolution.
Assessment:	A written class test held mid-semester (10%); two online tests during the semester (15% in total); a 2-hour written examination in the examination period (75%)
Prescribed Texts:	A J Griffiths et al, Introduction to Genetic Analysis, 9th ed. W H Freeman and Co.
Breadth Options:	This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008. This subject or an equivalent will be available as breadth in the future. Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available. 2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.

	Not available to students enrolled in the BBiomedSc.
Related Course(s):	Graduate Diploma in Biotechnology