652-304 Genetic Analysis

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: 12 lectures (one per week) and 36 hours of practical work (three hours per week) Total Time Commitment: 120 hours
Prerequisites:	Genetics 652-214, 652-216 and 652-215. BBiomedSc students: Genetics 652-214, 652-216 and 521-213 and 536-250.
Corequisites:	Genetics 652-302. BBiomedSc students: 521-308.
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:	Dr C Robin
Subject Overview:	Upon completion of the subject, students should have: # understood the application of genetic principles and different experimental designs in classical, molecular and population genetic analysis; # appreciated the advantages and disadvantages of these different designs; # developed a detailed understanding of the techniques employed in experimental designs; # experienced the use of particular laboratory techniques and analytical approaches in each of these areas of genetics; # become proficient in the analysis and interpretation of data derived from their own experimentation and that of others; # gained experience in the written presentation of scientific data; and # developed an ability to combine their understanding of genetic principles, experimental design and specific techniques to the investigation of new problems in biology. The subject involves lectures and practical exercises which demonstrate the principles and techniques of genetic analysis from classical and population genetics to modern biochemical and molecular technology.
Assessment:	Assignments/problem-solving tasks due during the semester (25%); four written practical reports due during the semester (25%); a 2-hour written examination in the examination period (50%).
Prescribed Texts:	None
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.
Related Course(s):	Bachelor of Arts and Bachelor of Science Bachelor of Arts and Sciences Bachelor of Biomedical Science Bachelor of Science Graduate Diploma in Biotechnology