654-201 Invertebrate Structure and Function

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: 24 lectures (two a week) and 27 hours practical work; and up to six hours of excursions, tutorials and demonstrations Total Time Commitment: 120 hours
Prerequisites:	Biology 650-141 and 650-142; or 650-131 and 650-132 (prior to 2004: biology 600-141 and 600-142; or 600-131 and 600-132).
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:	Dr R Day; Professor D L Macmillan
Subject Overview:	Upon completion of this subject students should have: # an appreciation of the range and diversity of the main groups of invertebrate animals; # the relation between structure and function in invertebrate animals; and # an understanding of current views about the phylogenetic relationships between the groups. Structural, physiological, behavioural and evolutionary aspects of the biology of invertebrate groups are covered. The practical component will cover the taxonomy and morphology of the major invertebrate groups. Students should develop the ability to recognise and classify the main groups of invertebrate organisms and also an understanding of their morphological, physiological and behavioural characteristics. This subject builds upon generic skills developed in first-year subjects, including an ability to approach and assimilate new knowledge and an ability to use that knowledge to evaluate theories and communicate ideas. Students should also learn how to observe critically and to use the results of their observations to pose and answer theoretical questions and to solve practical problems. They should master the terminology of a scientific field and gain experience in using that mastery to access an established body of scientific literature and material. Thus they should develop the ability to critically evaluate questions and issues in that scientific field.
Assessment:	Assessment of laboratory notebooks and excursion reports totalling up to 1000 words (15%), additional essay work (10%) and progress tests (5%) due during the semester; a 2-hour written examination in the examination period (40%); a 2-hour practical examination in the examination period (30%).
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. This subject is likely to be quota-restricted this year. Formerly known as 654-201 Animal Diversity. Experiments involving the use of animals are an essential part of this subject; exemption is not possible.