ZOOL20005 Animal Structure and Function

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	2011, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Lectures and laboratory based practical work.
Time Commitment:	Contact Hours: 2 x one hour lectures per week; 1 x three hour practical class per week. Total Time Commitment: Estimated total time commitment of 120 hours
Prerequisites:	Both

Subject	Study Period Commencement:	Credit Points:
BIOL10004 Biology of Cells and Organisms	Semester 1	12.50
BIOL10005 Genetics & The Evolution of Life	Semester 2	12.50

Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Students who have received credit for either of the following may not enrol in this subject for credit. # 654-201 Invertebrate Structure and Function (prior to 2009) # 654-202 Vertebrate Structure and Function (prior to 2009
Core Participation Requirements:	For the purposes of considering applications for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005) and Students Experiencing Academic Disadvantage Policy, this subject requires all students to actively and safely participate in laboratory activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the Subject Coordinator and the Disability Liaison Unit. http://www.services.unimelb.edu.au/disability/This subject involves the dissection of dead animals in practicals. Students' participation in practical activities is required.
Coordinator:	Assoc Prof Robert Day
Contact:	Email: ZOOL20005@zoology.unimelb.edu.au
Subject Overview:	This subject provides an introduction to the functional organisation of animals: what animals do and how they do it. Structural, physiological, behavioural and evolutionary aspects are covered but the emphasis is on feeding and locomotion. The practical component will cover the structural diversity of animals and their evolutionary relationships and develop skills relevant to the study of animals in taxonomy, microscopy and anatomy.
Objectives:	Upon completion of this subject students should have an appreciation of the relationship between structure and function in animals, especially the mechanisms involved in locomotion and food capture; an insight into the evolutionary history, diversity and relationships of animal groups, and the unique adaptations of these groups that allow them to occupy diverse habitats and roles in ecosystems.
Assessment:	Assessment of laboratory and/or excursion work during semester (25%); assessment of essay work and progress tests during the semester (20%); a 3-hour written examination during the examination period, covering both lecture and practical material (55%)

Prescribed Texts:	Hickman et al Integrated Principles of Zoology, McGraw Hill
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2011/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2011/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2011/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2011/B-MUS)** You should visit **learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html)** and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	The subject builds upon generic skills developed in first year level subjects, including the ability to approach and assimilate new knowledge and an ability to use that knowledge to evaluate theories and communicate ideas. Students should also develop skills in dissection and critical preservation of animals; and to use the results of observation to pose and answer theoretical questions and to solve practical problems. Students should master the terminology of the 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 a scientific field.
Notes:	This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BASc or a combined BSc course.
Related Course(s):	Bachelor of Science
Related Majors/Minors/ Specialisations:	Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses
Related Breadth Track(s):	Neuroscience