

ZOO20005 Animal Structure and Function

Credit Points:	12.5																		
Level:	2 (Undergraduate)																		
Dates & Locations:	2015, 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; 10 x three hour practical classes Total Time Commitment: Estimated total time commitment of 170 hours																		
Prerequisites:	<p>EITHER</p> <p>Both</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOL10004 Biology of Cells and Organisms</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BIOL10005 Genetics & The Evolution of Life</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>OR</p> <p>Both</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOL10002 Biomolecules and Cells</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BIOL10003 Genes and Environment</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	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	Subject	Study Period Commencement:	Credit Points:	BIOL10002 Biomolecules and Cells	Semester 1	12.50	BIOL10003 Genes and Environment	Semester 2	12.50
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Corequisites:	None																		
Recommended Background Knowledge:	None																		
Non Allowed Subjects:	None																		
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, Prof Stephen Swearer																		
Contact:	Email: ZOO20005@zoology.unimelb.edu.au																		
Subject Overview:	Animals show remarkable diversity in form and function. In this subject you will explore how form and function are related, starting with simple animals like corals and working up to apes and humans. We ask: How are these animals related by evolution? What do they do, and how do they do this? These are the different 'technologies' animals have evolved to solve the problem of how to move and feed. In the practicals, you will learn how to classify animals and interpret their features, and develop an understanding of how birds fly, fish feed, worms burrow and parasites infect us.																		

Learning Outcomes:	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; skills in dissection of animals and drawing to show structure; 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 work via quizzes during each practical class throughout the semester (25%); assessment of essay work (up to 750 words; 15%); a 1-hour mid-semester progress test (15%); and a 3-hour written examination during the examination period, covering both lecture and practical material (45%)
Prescribed Texts:	Hickman et al Integrated Principles of Zoology, McGraw Hill
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2015/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2015/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2015/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2015/B-MUS) <p>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.</p>
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 the use of observations to pose and answer questions and to solve practical problems. Students should master the terminology of the field and gain experience in using that mastery to access a large body of scientific literature and material. Thus they should develop the ability to critically evaluate questions and issues within any 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 Majors/Minors/Specialisations:	<p>Science-credited subjects - new generation B-SCI and B-ENG.</p> <p>Selective subjects for B-BMED</p> <p>Zoology</p> <p>Zoology</p>