

VETS70003 Veterinary Bioscience 1

Credit Points:	62.50						
Level:	7 (Graduate/Postgraduate)						
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Year Long, Parkville - Taught on campus.						
Time Commitment:	Contact Hours: 360 Total Time Commitment: 600 Hours						
Prerequisites:	A Bachelor of Science degree with at least 12.5 points of study in biology and 12.5 points of study in biochemistry.						
Corequisites:	Students are required to enrol in the following subject: <table border="1" data-bbox="387 656 1485 801"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>VETS70006 Applications in Animal Health 1</td> <td>Year Long</td> <td>37.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	VETS70006 Applications in Animal Health 1	Year Long	37.50
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VETS70006 Applications in Animal Health 1	Year Long	37.50					
Recommended Background Knowledge:	This course assumes prior knowledge in one or more discipline of science. All students will be expected to be familiar with the principles of scientific thinking, hypothesis development, experimental design, and data collection, analysis and interpretation.						
Non Allowed Subjects:	None						
Core Participation Requirements:	Prospective students are advised to familiarise themselves with the Faculty's Academic Requirements Statement http://www.vet.unimelb.edu.au/docs/CoreParticipationReqs.pdf						
Coordinator:	Assoc Prof Elizabeth Tudor						
Contact:	Email: etudor@unimelb.edu.au (mailto:etudor@unimelb.edu.au)						
Subject Overview:	<i>Veterinary Bioscience 1</i> takes an integrated and interdisciplinary approach to the study of organ function and dysfunction in animals. Building on students' prior knowledge and experience of scientific thinking, this subject introduces students to the structure and normal functioning of the digestive, metabolic, excretory, and cardiorespiratory systems, and to the principles of dysfunction of these systems. Students will be introduced to the clinical disciplines of pharmacology and therapeutics, diagnostic imaging and clinical pathology. Using case based teaching approaches students will apply their understanding of organ and system function and dysfunction to authentic situations that enhance the development of integrative clinical reasoning abilities.						
Objectives:	At the completion of this course students should be able to: <ul style="list-style-type: none"> # Appreciate the roles of the disciplines of anatomy, physiology, pharmacology, biochemistry and pathology in the analysis of animal structure, function and dysfunction. # Describe the structure and function of the digestive, metabolic, excretory, and cardiorespiratory systems. # Explain the processes by which normal function may be disrupted in these body systems, and predict the outcomes of these perturbations for normal function of the animal. # Apply and integrate an understanding of principles of organ function and dysfunction to cases involving multi-organ perturbation. # Use data acquired from clinical observation as well as understanding of organ function and dysfunction, to explain mechanisms of disease processes. 						
Assessment:	Five units and one clinical seminar will be undertaken in this subject. Unit 1 (Cells to Systems)One 2-hour written examination, End of semester 1 (15%)One 1-hour mid-semester test, Week 5 (4%) Unit 2 (Digestive System)One 2-hour written examination, End of semester 1						

	(15%)One 1-hour mid-semester test, Week 8 (4%) Unit 3 (Metabolism & Excretion)One 2-hour written examination, End of semester 1 (15%)One 1-hour mid-semester test, Week 11 (4%) Unit 4 (Cardiovascular System)One 2-hour written examination, End of semester 2 (15%)One 1-hour mid-semester test, Week 5 (4%) Unit 5 (Respiratory System)One 2-hour written examination, End of semester 2 (15%)One 1-hour mid-semester test, Week 11 (4%) The passing of each unit on aggregate mark is a hurdle requirement. One seminar that demonstrates the ability to integrate concepts across different discipline areas and organ systems, and to communicate these concepts to a diverse audience. (Presented on-line in video format on the Faculty's VOCE site.), To be completed satisfactorily by week 8 of semester 2 (5%) Students are required to pass the subject on aggregate mark.
Prescribed Texts:	None
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<ul style="list-style-type: none"> # Examine critically, synthesise and evaluate knowledge across a broad range of disciplines # Expand their analytical and cognitive skills through learning experiences in diverse subjects # Have the capacity to participate fully in collaborative learning and to find solutions to unfamiliar problems # Be able to seek solutions to problems through the application of knowledge, the ability to initiate and integrate new ideas, an appreciation of the broad picture of science, and an understanding of the importance and application of scientific method