VETS70004 Veterinary Bioscience 2

Credit Points:	43.75
Level:	7 (Graduate/Postgraduate)
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Year Long, Parkville - Taught on campus. 2015, This subject commences in the following study period/s: Semester 2, - Taught on campus. All students are to enrol in the Year Long availability of this subject, unless directed by the Faculty of Veterinary and Agricultural Sciences.
Time Commitment:	Contact Hours: 312 hours. Total Time Commitment: 450 Hours
Prerequisites:	Satisfactory completion of all subjects at DVM1 level.
Corequisites:	

Subject	Study Period Commencement:	Credit Points:
VETS70005 Infections Population and Public Health	Year Long, Semester 2	43.75
VETS70008 Applications in Animal Health 2	Year Long, Semester 2	12.50

All students are to enrol in the Year Long availabilities of these corequisite subjects, unless directed by the Faculty of Veterinary and Agricultural Sciences.

Recommended Background Knowledge:	This subject 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:	Refer to the Core Participation Requirements statement within the course entry for the Doctor of Veterinary Medicine: https://handbook.unimelb.edu.au/view/current/MC-DVETMED
Coordinator:	Assoc Prof Elizabeth Tudor
Contact:	Subject coordinator: **etudor@unimelb.edu.au (mailto:etudor@unimelb.edu.au)** Unit 1 Haemopoietic, Lymphoreticular and Integumentary Systems - Dr Barbara Bacci (Email: **bbacci@unimelb.edu.au (mailto:bbacci@unimelb.edu.au)**) Unit 2 Locomotion - Dr Christina Murray (Email: **cmmurray@unimelb.edu.au (mailto:cmmurray@unimelb.edu.au)**) Unit 3 Nervous and Endocrine Systems - Dr Andrew Stent (Email: **andrew.stent@unimelb.edu.au (mailto:andrew.stent@unimelb.edu.au)**) Unit 4 Reproduction - Dr Natali Krekeler (Email: **krekeler@unimelb.edu.au (mailto:krekeler@unimelb.edu.au)**) Unit 5 Regional Anatomy of the Dog - Assoc Prof Helen Davies (Email: **h.davies@unimelb.edu.au (mailto:h.davies@unimelb.edu.au)**)
Subject Overview:	*VETS70004 Veterinary Bioscience 2* continues the integrated and interdisciplinary approach to the study of organ function and dysfunction in animals that is introduced in *Veterinary Bioscience 1*. Building on students' prior knowledge of organ function and dysfunction and their experience of scientific and clinical reasoning, this subject introduces students to the structure and normal functioning of the haemopoietic and lymphoreticular, locomotory and integumentary, reproductive and nervous and endocrine 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 as they relate to these systems. Using

	case based teaching approaches they will apply their understanding of organ and system function and dysfunction to authentic situations that enhance the development of integrative clinical reasoning abilities, and to analysis of cases that involve multiple organ perturbation.
Learning Outcomes:	At the completion of this course students should be able to: # 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 haemopoietic and lymphoreticular, locomotory and integumentary, reproductive and neuroendocrine 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 evidence-based medicine research activity will be undertaken in this subject. Unit 1 Haemopoietic, Lymphoreticular and Integumentary Systems - (20% of total subject assessment) One 2-hour written examination, End of semester 1 (15%) One 1-hour test held during semester 1 (5%) Unit 2 Locomotion - (20% of total subject assessment) One 2-hour written examination, End of semester 1 (15%) One 1-hour test held during semester 1 (5%) Unit 3 Nervous and Endocrine Systems - (20% of total subject assessment) One 2-hour written examination, End of semester 2 (15%) One 1-hour test held during semester 2 (5%) Unit 4 Reproduction - (20% of total subject assessment) One 2-hour written examination, End of semester 2 (15%) One 1-hour test held during semester 2 (5%) Unit 5 Regional Anatomy of the Dog - (10% of total subject assessment) One 1-hour written examination, End of semester 1 (5%) One 1-hour written examination, End of semester 2 (5%) The passing of each unit on aggregate mark is a hurdle requirement.Evidence-based medicine research activity: A project in which students work collaboratively to address a designated research topic that requires them to research and evaluate the evidence for efficacy of a specific pharmacological agent in treatment of a specific animal disease. Presented as an on-line communication activity in video format on the Faculty's VOCE site and a 500 word written report to be completed satisfactorily in semester 2 (10%). 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:	# 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 confront 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
Related Course(s):	Doctor of Veterinary Medicine