VETS70012 Principles of Veterinary Bioscience 1

Credit Points:	50
Level:	7 (Graduate/Postgraduate)
Dates & Locations:	This subject is not offered in 2013.
Time Commitment:	Contact Hours: 288 Total Time Commitment: 480
Prerequisites:	Admission into the Doctor of Veterinary Medicine. A Bachelor of Science degree with at least 12.5 points of study in biology and 12.5 points of study in biochemistry. **Subject** | **Study Period Commencement:** | **Credit Points:** VETS30015 Veterinary Bioscience: Cells to Systems | Not offered 2013 | 12.50
Corequisites:	**Subject** | **Study Period Commencement:** | **Credit Points:** VETS70013 Animal Management and Veterinary Health | Not offered 2013 | 12.50
Recommended Background Knowledge:	This course assumes prior knowledge in one or more disciplines 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:	**Subject** | **Study Period Commencement:** | **Credit Points:** VETS70003 Veterinary Bioscience 1 | Semester 2 | 62.50
Core Participation Requirements:	Students should refer to the Core Participation Requirements statement for the Doctor of Veterinary Medicine: http://www.vet.unimelb.edu.au/docs/CoreParticipationReqs.pdf
Contact:	Email: **etudor@unimelb.edu.au (mailto:etudor@unimelb.edu.au)**
Subject Overview:	This subject 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: # 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 an understanding of organ function and dysfunction, to explain mechanisms of disease processes.

Assessment:	Two 2-hour written examinations at the end of Semester 1 (37.5%) Two 2-hour written examinations at the end of Semester 2 (37.5%) Two 1-hour multiple-choice tests during semester 1 (5%), indicated in the teaching timetable; approximately weeks 5 and 11 respectively. Two 1-hour multiple-choice tests during semester 2 (5%), indicated in the teaching timetable; approximately weeks 6 and 11 respectively. One clinical 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 via the Faculty's VOCE site. To be satisfactorily completed by each student by week 8 of semester 2. (15%) 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 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.