

DASC20010 Applied Animal Physiology

Credit Points:	12.5
Level:	2 (Undergraduate)
Dates & Locations:	2016, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 72 hours Total Time Commitment: 170 hours
Prerequisites:	A Level 1 Biology subject.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and the Disability Liaison Unit: http://www.services.unimelb.edu.au/disability/ Q Fever Students enrolling in this subject are advised that some courses of study may put them at an increased risk of contracting Q Fever. Q Fever is a relatively common preventable condition which, while rarely fatal, can cause a severe acute illness and can result in damage to heart valves and chronic fatigue. It is recommended that students consider undertaking screening and vaccination for Q Fever prior to commencement of study. Students may be required to provide proof of vaccination prior to undertaking some coursework. Vaccine costs for students are not covered by the Pharmaceutical Benefit Scheme, Medicare, or by the University. Some students with full private medical coverage (which has hospital and ancillary cover) may receive partial re-imbusement for vaccine costs.
Coordinator:	Mr Peter Cakebread
Contact:	Email: pcake@unimelb.edu.au (mailto:pcake@unimelb.edu.au)
Subject Overview:	Physiology is the integrative study of the control of normal body function. This subject will examine the functions of different cell types and their interactions in organs and tissues; mechanisms by which organs are controlled and their functions are regulated; thermoregulatory processes and fluid balance; the physiology of the nervous system, of digestion, circulation, respiration, and excretion; the processes of growth and development, and factors that can be manipulated to alter animal performance under normal conditions.
Learning Outcomes:	On completion of this subject students should be aware: <ul style="list-style-type: none"> # The working knowledge of structure and normal physiological function of domestic animals # The terminology and basic principles of structure and function in animals # Functions of different cell types and their interactions in organs and tissues # Mechanisms by which organ systems are controlled and functions coordinated # The physiology of the nervous system, of digestion, circulation, respiration, and excretion # The processes of growth # Differences in animal performance relating to physiological factors.

Assessment:	Practical work assessed by five multiple-choice online 20 minute quizzes throughout semester worth a total of 10% A one-hour mid-semester MCQ examination in approximately Week 7 worth 30% A two-hour written end-of-semester exam worth 60% Note: Access to online quizzes is dependant on practical class attendance.
Prescribed Texts:	Animal Physiology: From Genes to Organisms. Sherwood, Klandorf and Yancey 2005 or 2012
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/2016/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2016/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2016/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2016/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:	<p>On completion of the subject the students should have developed the following generic skills:</p> <ul style="list-style-type: none"> # Academic excellence # Greater in-depth understanding of scientific disciplines and of the practical and ethical aspects of working in animal physiology # The student's flexibility and level of transferable skills should be enhanced through improved time management # An enhanced ability to communicate ideas effectively in both written and verbal formats.
Notes:	<p>This subject is available for science credit to students enrolled in the BSc (new degree only).</p> <p>Q Fever</p> <p>Students enrolling in this subject are advised that some courses of study may put them at an increased risk of contracting Q Fever. Q Fever is a relatively common preventable condition which, while rarely fatal, can cause a severe acute illness and can result in damage to heart valves and chronic fatigue. It is recommended that students consider undertaking screening and vaccination for Q Fever prior to commencement of study. Students may be required to provide proof of vaccination prior to undertaking some coursework. Your course coordinator will advise you of this requirement prior to commencement of the study semester. Vaccine costs for students are not covered by the Pharmaceutical Benefit Scheme, Medicare, or by the University. Some students with full private medical coverage (which has hospital and ancillary cover) may receive partial re-imbusement for vaccine costs.</p>
Related Majors/Minors/Specialisations:	<p>Agricultural Economics Plant and Soil Science Production Animal Health Production Animal Science Science-credited subjects - new generation B-SCI and B-ENG. Selective subjects for B-BMED Sustainable Production</p>