

DASC30006 Applied Animal Reproduction & Genetics

Credit Points:	12.50																		
Level:	3 (Undergraduate)																		
Dates & Locations:	This subject is not offered in 2014.																		
Time Commitment:	Contact Hours: Twenty-four lectures; three hours tutorials; 24 hours practical work to be undertaken at Parkville and off-site Total Time Commitment: 120 hours (including non-contact time)																		
Prerequisites:	<p>Students need to have completed:</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> </tbody> </table> <p>And either one of the below:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>DASC20010 Applied Animal Physiology</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>ZOOL20006 Comparative Animal Physiology</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	Subject	Study Period Commencement:	Credit Points:	DASC20010 Applied Animal Physiology	Semester 2	12.50	ZOOL20006 Comparative Animal Physiology	Semester 2	12.50			
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Corequisites:	None																		
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Non Allowed Subjects:	<p>Students may not gain credit for this subject and any of:</p> <ul style="list-style-type: none"> # 208-325 Applied Animal Reproduction (prior to 2010) # 654-314 Lectures in Reproduction (prior to 2005) # 654-304 Reproduction (prior to 2010) <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>DASC30008 Genetics and Animal Breeding</td> <td>Not offered 2014</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	DASC30008 Genetics and Animal Breeding	Not offered 2014	12.50												
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Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/																		
Contact:	Melbourne School of Land & Environment Student Centre																		

	<p>Ground Floor, Melbourne School of Land & Environment (building 142)</p> <p><i>Enquiries</i> Phone: 13 MELB (13 6352) Email: 13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au)</p>
Subject Overview:	<p>The aim of this subject is to give students of animal science a fundamental understanding of both applied reproductive biology and genetics. This will enable students to develop the skills necessary for management of reproductive performance and to implement genetic improvement of domestic animals. The content includes comparative structure and function of reproductive organs; endocrinology and neuro-endocrinology of reproductive cycles; environmental and genetic influences on reproduction, interventions to manipulate reproduction; reproductive biotechnologies including cloning; breeding values and selection indices; inbreeding and crossbreeding; applied animal genomics.</p>
Learning Outcomes:	<p>On completion of this subject students should be able to:</p> <ul style="list-style-type: none"> - describe the comparative structure and function, as well as endocrine and neuroendocrine control of the reproductive systems; - identify factors affecting reproduction and define management strategies to optimise reproductive performance; - critically evaluate new and emerging technologies for modifying reproductive performance, - express how genetic parameters influence animal improvement programs; - contrast potential negative effects of inbreeding with potential advantages of crossbreeding; - evaluate the impact of manipulating reproduction to optimise breed improvement programs
Assessment:	<p>End of semester examination of up to 3 hours (60%) One written assignment (1500 words) (20%) Up to four written practical reports of not more than 1000 words each (20%)</p>
Prescribed Texts:	None
Recommended Texts:	<p>Applied Animal Reproduction / Edition 6 by H. Joe Bearden, John W. Fuquay and Scott T. Willard</p>
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/2014/B-ARTS) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2014/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2014/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:	<p>Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees</p>
Generic Skills:	<p>Please refer to objectives</p>
Notes:	<p><i>This subject involves the use of animals. Students should be aware that this is an essential part of the subject and exemption from this component is not possible.</i></p> <p><i>Credit cannot be gained for DASC30006 (208-325) and/or DASC30008 (208-339).</i></p> <p>Q Fever</p> <p>Students enrolling in the Melbourne School of Land and Environment 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</p>

	<p>coverage (which has hospital and ancillary cover) may receive partial re-imburement for vaccine costs.</p> <p>http://www.land-environment.unimelb.edu.au/current-students/your-subjects/q-fever-information.html (http://www.land-environment.unimelb.edu.au/current-students/your-subjects/q-fever-information.html)</p>
Related Majors/Minors/ Specialisations:	<p>Animal Disease Biotechnology (specialisation of Animal Health and Disease major) Animal Science and Management Production Animal Health Science-credited subjects - new generation B-SCI and B-ENG. Selective subjects for B-BMED Sustainable Production</p>