

DASC30006 Applied Animal Reproduction & Genetics

Credit Points:	12.50																		
Level:	3 (Undergraduate)																		
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.																		
Time Commitment:	Contact Hours: Twenty-four lectures; six hours tutorials; 18 hours practical work to be undertaken at Parkville and Werribee Total Time Commitment: Not available																		
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>654-314 (pre 2005) and,</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOL30001 Reproduction</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>DASC30008 Genetics and Animal Breeding</td> <td>Not offered 2012</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	BIOL30001 Reproduction	Semester 2	12.50	DASC30008 Genetics and Animal Breeding	Not offered 2012	12.50									
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Core Participation Requirements:	<p>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/</p>																		

Coordinator:	Ms Iona Macleod, Ms Tina Chamberlain
Contact:	Melbourne School of Land & Environment Student Centre Ground Floor, Land & Food Resources (building 142) <i>Enquiries</i> Phone: 13 MELB (13 6352) Email: 13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au)
Subject Overview:	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 genetic improvement programs 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 genomics and cloning; breeding values & selection indices; inbreeding & crossbreeding; and optimising breeding program design.
Objectives:	On completion of this subject students should be able to: <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:	One written assignment (20% of final marks), up to four written practical reports of not more than 1000 words each (30%), one end of semester examination of up to 3 hours (50% of final marks).
Prescribed Texts:	None
Recommended Texts:	Applied Animal Reproduction / Edition 6 by H. Joe Bearden, John W. Fuquay and Scott T. Willard
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2012/B-ARTS) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2012/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2012/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:	Please refer to objectives
Notes:	<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> <i>Credit cannot be gained for DASC30006 (208-325), DASC30008 (208-339) and any of 654-314 (pre 2005), ECOL30006 (654-324) and BIOL30001 (654-304).</i>
Related Course(s):	Bachelor of Agriculture
Related Majors/Minors/Specialisations:	Animal Disease Biotechnology (specialisation of Animal Health and Disease major) Animal Science and Management

Science-credited subjects - new generation B-SCI and B-ENG. Core selective subjects for B-BMED.