DASC30006 Applied Animal Reproduction & Genetics

Credit Points:	12.50			
Level:	3 (Undergraduate)			
Dates & Locations:	2011, 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:	Students need to have completed:			
	Subject	Study Period Commencement:	Credit Points:	
	BIOL10004 Biology of Cells and Organisms	Semester 1	12.50	
	And either one of the below:			
	Subject	Study Period Commencement:	Credit Points:	
	DASC20010 Applied Animal Physiology	Semester 2	12.50	
	ZOOL20006 Comparative Animal Physiology	Semester 2	12.50	
Corequisites:	None			
Recommended Background Knowledge:				
	Subject	Study Period Commencement:	Credit Points:	
	DASC20012 Comparative Nutrition and Digestion	Semester 1	12.50	
	DASC20011 Companion Animal Biology	Semester 1	12.50	
	DASC20013 Topics in Animal Health	Semester 2	12.50	
	ECOL20003 Ecology	Semester 2	12.50	
	ECOL30006 Ecology in Changing Environments	Not offered 2011	12.50	
Non Allowed Subjects: 654-314 (pre 2005)				
	and,			
	Subject	Study Period Commencement:	Credit Points:	
	BIOL30001 Reproduction	Semester 2	12.50	
	DASC30008 Genetics and Animal Breeding	Not offered 2011	12.50	
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/			
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: <u>13MELB@unimelb.edu.au</u> (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: 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	
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2011/B-ARTS) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2011/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2011/B-MUS) 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.	
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees	
Generic Skills:	Please refer to objectives	
Notes:	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. 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).	
Related Course(s):	Bachelor of Agriculture Bachelor of Science	
Related Majors/Minors/ Specialisations:	Animal Disease Biotechnology (specialisation of Animal Health and Disease major) Animal Science and Management	