**BIOL30001 Reproduction** 

Credit Points:	12.50		
Level:	3 (Undergraduate)		
Dates & Locations:	2011, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.		
Time Commitment:	Contact Hours: 24 lectures and 24 hours practical/tutorials Total Time Commitment: Estimated total time commitment of 120 hours		
Prerequisites:	25 points selected from		
	Subject	Study Period Commencement:	Credit Points:
	ZOOL20005 Animal Structure and Function	Semester 1	12.50
	ZOOL20006 Comparative Animal Physiology	Semester 2	12.50
	PHYS20008 Human Physiology	Semester 1, Semester 2	12.50
	PHYS20009 Research-Based Physiology	Semester 1, Semester 2	12.50
	CEDB20003 Fundamentals of Cell Biology	Semester 1	12.50
	GENE20001 Principles of Genetics	Semester 1	12.50
	BCMB20002 Biochemistry and Molecular Biology	Semester 1, Semester 2	12.50
	BIOM20002 Human Structure and Function	Semester 2	25
	BIOM20001 Molecular and Cellular Biomedicine	Semester 1	25
	Students with equivalent alternative backgrounds should discuss their options with the coordinator.		
Corequisites:	None		
Recommended Background Knowledge:	None		
Non Allowed Subjects:	Students may not gain credit for this subject and any of # 208-325 Applied Animal Reproduction (prior to 2010) # 654-314 Lectures in Reproduction (prior to 2005)		
Core Participation Requirements:	For the purposes of considering applications for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005) and Students Experiencing Academic Disadvantage Policy, this subject requires all students to actively and safely participate in practical class activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the Subject Coordinator and the Disability Liaison Unit. http://www.services.unimelb.edu.au/disability/		
Coordinator:	Prof Geoff Shaw		
Contact:	Email: BIOL30001@zoology.unimelb.edu.au		
Subject Overview:	Topics will include structure, function, and development of the reproductive organs; endocrine and neuroendocrine and environmental control of reproduction, fertilisation, pregnancy, parturition and lactation in vertebrates; and human intervention in the reproductive process.		

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This subject aims to give students of science and biomedical science a solid foundation in reproductive biology and its applications. By the completion of this subject students should:			
# understand the modern experimental approaches of reproductive physiology and assisted reproductive techniques;			
# understand and be able to apply selected methods used in reproductive physiology research;			
# understand the structure and function of male and female reproductive systems; and			
# understand neuroendocrine and endocrine control systems and their role in the regulation of reproductive processes.			
A critical review of published journal articles of 1500 words due in week 10 (15%); laboratory work, worksheets and up to three practical reports totalling up to 3000 words due during the semester (35%); a 1-hour mid-semester test in week 6 or 7 (10%); a 2-hour written examination in the examination period (40%).			
M H Johnson and B J Everitt, Essential Reproduction 5th Ed, Blackwells			
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 Commerce (https://handbook.unimelb.edu.au/view/2011/B-COM)  # 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 <u>learn more about breadth subjects</u> (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.	
		Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees	
		This subject builds upon existing generic skills, including an ability to approach and assimilate new knowledge from observation and the literature, and an ability to use that knowledge to evaluate and communicate results. Students should acquire the basic skills required to make and record scientific observations, and evaluate data in an objective manner as part of practical class report writing. They will be encouraged to access information from the primary scientific literature, through both electronic and traditional sources, and to develop the skills needed to produce scientific reports that are succinct, clear and completed on time. They should develop their abilities to evaluate scientific evidence critically, to formulate hypotheses, and be alert to alternative explanations. Students should also improve their skills in dissection and gain first-hand experience in the use of experimental animal surgery.	
		This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BASc or a combined BSc course.	
Experiments involving the use of animals are an essential part of this subject: exemption is not possible.			
Bachelor of Science			
Biotechnology (pre-2008 Bachelor of Science) Cell Biology (pre-2008 Bachelor of Science) Genetics Molecular Biotechnology (specialisation of Biotechnology major) Physiology Reproduction and Development (pre-2008 Bachelor of Science) Reproduction and Development (specialisation of Cell and Developmental Biology major) Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses Zoology			

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