BIOL30001 Reproduction

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2010, 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:	Both of # **654-217 Animal Structure and Function (/view/2010/654-217)** # **654-218 Comparative Animal Physiology (/view/2010/654-218)** Or 25 points selected from # 654-203 Animal Physiology (prior to 2009) # 654-202 Vertebrate Structure and Function (prior to 2009) # 208-202 Animal Physiology (prior to 2009) # 208-207 Animal Management and Production (prior to 2009) # 536-201 Principles of Physiology (prior to 2009) # 536-211 Physiology: Control of Body Function (prior to 2009) # 536-233 Research-based & Integrative Physiology (prior to 2009) # 516-201 Cell Biology: Tissues and Organs (prior to 2009) # 516-207 Anatomy 2 (prior to 2009) # 521-213 Integrated Biomedical Science I (prior to 2009) # 536-250 Integrated Biomedical Science II (prior to 2009)
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Students may only gain credit for one of # 654-304 Reproduction # **208-325 Applied Animal Reproduction (/view/2010/208-325)** # 654-314 Lectures in Reproduction (prior to 2005)
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
Coordinator:	Assoc Prof Geoff Shaw
Contact:	Email: 654304@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.
Objectives:	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, including surgery; # 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.
Assessment:	A critical review of published journal articles totalling up to 1000 words and a group oral presentation due during the semester (15%); laboratory work, worksheets and up to three practical reports totalling up to 3000 words due during the semester (35%); a 3-hour written examination in the examination period (50%).
Prescribed Texts:	M H Johnson and B J Everitt, Essential Reproduction 5th Ed, Blackwells
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/2010/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2010/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2010/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/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:	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.
Notes:	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.
Related Course(s):	Bachelor of Science
Related Majors/Minors/ Specialisations:	Behavioural Ecology Biotechnology Biotechnology Cell Biology Cell and Developmental Biology Genetics Genetics Molecular Biotechnology Physiology Physiology Reproduction and Development Reproduction and Development Reproductive Physiology Wildlife and Conservation Zoology