208-122 Biological Systems

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: Twenty-four hours of lectures and 36 hours of tutorials and practicals Total Time Commitment: Not available
Prerequisites:	Nil
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability
Coordinator:	Mr Chris Laird
Subject Overview:	The subject covers areas including: # animal growth and development - physiology and growth of carcass tissues - muscle, bone and fat; development of mammary tissue; wool growth; embryo and semen properties, storage and handling; # processes - nutrition, reproduction and lactation, health; # animal products - meat, wool and milk - composition and quality issues; science of production and processing; # animal genetics - single gene traits of economic importance - mutation type, inheritance and mode of action, gene frequency and selection; quantitative genetics; inbreeding and outcrossing; heritability and heterosis; # plant growth and development - tissues and parts including flowers, monocotyledon and dicotyledon differences, differentiation, primary and secondary growth, cellular respiration pathways; # processes - water and nutrient absorption and transport, soil plant atmosphere continuum, photosynthesis, pathways, radiation, environmental impacts; # plants in the agricultural system and landscape, their management and products; and # plant breeding - a brief introduction.
Assessment:	Mid-semester examination (10%), final examination (70%), practicals (20%), pass in practical component required.
Prescribed Texts:	None

Recommended Texts:	# **Biology** (N Campbell and J Reece), Benjamin Cummings, 2002
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Information Not Available