Course Outline (Higher Education)

School:	School of Health and Life Sciences
Course Title:	HUMAN DEVELOPMENT AND GENETICS
Course ID:	BIOGC2721
Credit Points:	15.00
Prerequisite(s):	Nil
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED:	010913

Description of the Course :

Reproduction and maintenance will examine several systems, with emphasis on anatomical structure, and physiological control mechanisms. The unit will consist of four themed sections: Recognition of Self; Reproductive System; Embryonic Development, and Nutrient Acquisition and Waste Elimination. The unit will also explore interactions between systems in the maintenance of homeostasis. Laboratory and workshop classes are divided into two streams: the human/medical stream or the animal/veterinary stream; students select the stream appropriate to their study program and interests.

Grade Scheme: Graded (HD, D, C, etc.)

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the course but gained a final mark of 45 per cent or above and submitted all major assessment tasks..

Learning Outcomes:

Upon completion of the unit the students will be able to:

1. Explain the mechanisms which allow recognition of self and non-self in mammals;
2. Relate the structure of the reproductive system to the functions of gametogenesis and fertilisation;
3. Explain how the endocrine system controls reproductive function in the male and the female and how these control mechanism may be manipulated to aid reproduction;
4. Describe the process of implantation and embryogenesis;
5. Describe the major changes in embryonic development in early pregnancy;
6. Discuss the development of foetal circulatory and respiratory systems and describe the changes that take place in the natal and post-natal period; discuss maternal adaptations to pregnancy;
7. Relate the control of the digestive system to digestive, absorptive, and metabolic functions;
8. Explain the function of the renal system in the maintenance the body's fluid and electrolyte balance and the extracellular volume;
9. Evaluate the interactions of the respiratory and renal systems in the maintenance of the extracellular pH;
10. Develop skills in the measurement of physiological parameters and the collection, analysis,

interpretation and communication of experimental data;

11. Communicate effectively via written, verbal and visual/graphic means.

Course Content:

Values and Graduate Attributes:

Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
Quizzes	Quizzes	Quizzes	10%
Workshop assessment	Workshop assessment	Workshop assessment	30%
Examination	Examination	Examination	60%

Adopted Reference Style: