536-304 Advanced Experimental Physiology

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: One lecture, 15 hours of assignment and literature work, 42 hours of practical work and seminars Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	Physiology 536-301 or 536-302 or 536-303 or 536-308.
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
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:	Prof M Hargreaves
Subject Overview:	This subject provides practical experience in experimental physiology within a 'work-experience' research environment. Emphasis is given to communication (oral and written) and to work as a team in interactive small group research. The assignments will concentrate on developing skills associated with scientific writing and critical appreciation of the literature. In the research component, students will learn group management skills including timetabling and negotiation, use group discussion/debate and reason to explore experimental approaches, learn about scientific conduct, working cooperatively in small groups with a member of staff actively investigating a specific physiological problem. Students will be expected to use their training in scientific writing undertaken in physiology 536-301, 536-302, 536-303 or 536-308 as a basis for writing their reports. The range of topics offered varies from year to year, and includes cardiac physiology, brain function, foetal physiology, vascular function and skeletal muscle physiology.
Assessment:	Assessment is dependent on the nature of the individual project undertaken and is comprised of the following: a scientific writing assignment or a laboratory report totalling up to 2500 words (ranging from 60% to 100% of the subject's total assessment). Additional assessment may involve laboratory performance during the semester (from 10% to 40%); and/or a seminar presentation/discussion of process and results (from 5% to 25%). The exact assessment details including relative component weightings and the timing of assessment components will be advised after a student selects an area of investigation.
Prescribed Texts:	None
Breadth Options:	This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008. This subject or an equivalent will be available as breadth in the future. Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available. 2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.

Related Course(s):	Bachelor of Arts and Bachelor of Science Bachelor of Arts and Sciences Bachelor of Biomedical Science Bachelor of Science