PHYS20009 Research-Based Physiology

Credit Points:	12.5
Level:	2 (Undergraduate)
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus. An enrolment quota of 200 students per semester applies to this subject. For detailed information on the quota subject application process, refer to the Quota Subject link on the MDHS Student Centre website: http://sc.mdhs.unimelb.edu.au/quota-subjects
Time Commitment:	Contact Hours: one x 1 hour lecture and one x 3 hour practical per week Total Time Commitment: 48 contact hours with an estimated total time commitment of 170 hours (including non-contact time)
Prerequisites:	**Subject** / **Study Period Commencement:** / **Credit Points:** BIOL10004 Biology of Cells and Organisms — Semester 1 — 12.50 BIOL10005 Genetics & The Evolution of Life — Semester 2 — 12.50 Plus 1 semester of any 1st year quantitative science subject eg: Chemistry, Physics, Maths, Psychology
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Non allowed subjects: **Subject** / **Study Period Commencement:** / **Credit Points:** BIOM20002 Human Structure and Function — Semester 2 — 25
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:	Dr Deanne Skelly
Contact:	**Subject Coordinators** Dr Deanne Skelly **deanne.skelly@unimelb.edu.au (mailto:Deanne.skelly@unimelb.edu.au)** Administrative Coordinator Ms Lesley Robinson **BiomedSci-AcademicServices@unimelb.edu.au (mailto:BiomedSci-AcademicServices@unimelb.edu.au)**

Subject Overview:	Students will develop an understanding of the principles of experimental design appropriate for investigating underlying mechanisms of physiological responses. They will also undertake a research project completed over several weeks, which will require them to formulate a suitable hypothesis to investigate a physiological problem, select and test suitable techniques, design appropriate experimental protocols to test their hypothesis, collect and analyse their data, and write a scientific report on their findings.
Learning Outcomes:	The aims are to prepare students for critical analysis and writing of research-based literature reviews and scientific reports in their future studies and career as well as for students to learn some physiological concepts in a practical setting. It also aims to develop research skills for an enquiring graduate and investigative skills for lifelong learning.
Assessment:	Written reports of up to 1000 words each due during the semester (20%); Class participation during the semester (5%); Effective PRS participation and contributions (5%), A research-project and written report of up to 2000 words due during semester (30%); Ongoing assessment of e-Learning activities(10%); A 2-hour written examination in the examination period (30%)
Prescribed Texts:	Silverthorn, D.U., Human Physiology: An Integrated Approach 6th Ed., 2013 - Pearson
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/2015/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2015/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2015/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2015/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:	Critical thinking, creative thinking, self-managed learning, adaptability, problem solving, communication skills, interpersonal skills, group work and computer literacy.
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. This subject is not available to Bachelor of Biomedicine students. Students undertaking this subject will be expected to regularly access an internet-enabled computer. LMS including e-learning, Lectopia recordings, lecture notes, handouts, lab manual.
Related Majors/Minors/ Specialisations:	Science-credited subjects - new generation B-SCI and B-ENG. Zoology Zoology