

# PHYS20009 Research-Based Physiology

<b>Credit Points:</b>	12.50						
<b>Level:</b>	2 (Undergraduate)						
<b>Dates &amp; Locations:</b>	2012, 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 150 students per semester applies to this subject. For detailed information on the quota subject application process, refer to the Quota Subject link on the Eastern Precinct Student Centre website: <a href="http://studentcentre.unimelb.edu.au/eastern/">http://studentcentre.unimelb.edu.au/eastern/</a>						
<b>Time Commitment:</b>	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 120 hours (including non-contact time)						
<b>Prerequisites:</b>	2 semesters of 1st year Biology and 1 semester of any 1st year quantitative science subject eg: chemistry, physics, maths, psychology						
<b>Corequisites:</b>	None						
<b>Recommended Background Knowledge:</b>	Strongly recommended: <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>PHYS20008 Human Physiology</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	PHYS20008 Human Physiology	Semester 1, Semester 2	12.50
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<b>Non Allowed Subjects:</b>	Non allowed subjects: <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOM20002 Human Structure and Function</td> <td>Semester 2</td> <td>25</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	BIOM20002 Human Structure and Function	Semester 2	25
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<b>Core Participation Requirements:</b>	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. This subject requires all students to actively and safely participate in laboratory activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>						
<b>Coordinator:</b>	Dr Charles Seigny						
<b>Contact:</b>	<b>Academic Coordinator</b> Mr Charles Seigny <a href="mailto:sevignyc@unimelb.edu.au">sevignyc@unimelb.edu.au</a> ( <a href="mailto:sevignyc@unimelb.edu.au">mailto:sevignyc@unimelb.edu.au</a> )  Administrative Coordinator Ms Lesley Robinson <b><a href="mailto:BiomedSci-AcademicServices@unimelb.edu.au">BiomedSci-AcademicServices@unimelb.edu.au</a></b> ( <a href="mailto:BiomedSci-AcademicServices@unimelb.edu.au">mailto:BiomedSci-AcademicServices@unimelb.edu.au</a> )						
<b>Subject Overview:</b>	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.
<b>Objectives:</b>	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.
<b>Assessment:</b>	Written reports of up to 1500 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%)
<b>Prescribed Texts:</b>	Silverthorn, D.U., Human Physiology: An Integrated Approach 5th Ed., 2010 - Pearson
<b>Breadth Options:</b>	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Arts</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-ARTS">https://handbook.unimelb.edu.au/view/2012/B-ARTS</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-COM">https://handbook.unimelb.edu.au/view/2012/B-COM</a>)</li> <li># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-ENVS">https://handbook.unimelb.edu.au/view/2012/B-ENVS</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-MUS">https://handbook.unimelb.edu.au/view/2012/B-MUS</a>)</li> </ul> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	Critical thinking, creative thinking, self-managed learning, adaptability, problem solving, communication skills, interpersonal skills, group work and computer literacy.
<b>Notes:</b>	<p>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.</p> <p>This subject is not available to Bachelor of Biomedicine students.</p> <p>Students undertaking this subject will be expected to regularly access an internet-enabled computer.</p> <p>LMS including e-learning, Lectopia recordings, lecture notes, handouts, lab manual.</p>
<b>Related Majors/Minors/Specialisations:</b>	Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses Science-credited subjects - new generation B-SCI and B-ENG. Core selective subjects for B-BMED.