

## PAED40002 The Biology of Human Health and Disease

<b>Credit Points:</b>	12.5						
<b>Level:</b>	4 (Undergraduate)						
<b>Dates &amp; Locations:</b>	2015, Parkville This subject commences in the following study period/s: Year Long, Parkville - Taught on campus.						
<b>Time Commitment:</b>	Contact Hours: 24 Total Time Commitment: 24 contact hours with an estimated total time commitment of 170 hours (including non-contact time)						
<b>Prerequisites:</b>	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOM40001 Introduction To Biomedical Research</td> <td>February</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	BIOM40001 Introduction To Biomedical Research	February	12.50
Subject	Study Period Commencement:	Credit Points:					
BIOM40001 Introduction To Biomedical Research	February	12.50					
<b>Corequisites:</b>	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>PAED40001 Paediatrics Research Project</td> <td>Semester 1</td> <td>31.25</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	PAED40001 Paediatrics Research Project	Semester 1	31.25
Subject	Study Period Commencement:	Credit Points:					
PAED40001 Paediatrics Research Project	Semester 1	31.25					
<b>Recommended Background Knowledge:</b>	None						
<b>Non Allowed Subjects:</b>	None						
<b>Core Participation Requirements:</b>	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Equitable Adjustment Procedure, academic requirements for this subject are articulated in the Subject Overview, Objectives, 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 will impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser 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>	Prof Amanda Fosang						
<b>Contact:</b>	<p><b>Subject Coordinator:</b> Assoc Prof Amanda Fosang <a href="mailto:amanda.fosang@mcri.edu.au">amanda.fosang@mcri.edu.au</a> (<a href="mailto:amanda.fosang@mcri.edu.au">mailto:amanda.fosang@mcri.edu.au</a>)</p> <p><b>Administrative Coordinator:</b> Ms Helen D'Cruz <a href="mailto:helen.dacruz@rch.org.au">helen.dacruz@rch.org.au</a> (<a href="mailto:helen.dacruz@rch.org.au">mailto:helen.dacruz@rch.org.au</a>)</p>						
<b>Subject Overview:</b>	This subject provides students with an introduction to biomedical research via lectures, workshops and tutorials. It comprises a range of coursework to complement the accompanying research subjects ( <b>PAED40001</b> ( <a href="http://handbook.unimelb.edu.au/view/2011/PAED40001">../view/2011/PAED40001</a> ) and <b>PAED40005</b> ( <a href="http://handbook.unimelb.edu.au/view/2011/PAED40005">../view/2011/PAED40005</a> )). This subject is designed to enhance students' understanding of the broader areas of contemporary biomedical science, and to encourage the development of independent thinking and critical analytical skills.						
<b>Learning Outcomes:</b>	The objectives of this subject are to enable students to: <ul style="list-style-type: none"> <li># Understand contemporary issues in biomedical and health research</li> <li># Design and plan experiments with appropriate hypotheses and controls</li> </ul>						

	<ul style="list-style-type: none"> <li># Design and plan experiments with appropriate ethical and statistical rigor</li> <li># Access a range of bioinformatics tools that can facilitate biomedical research</li> <li># Correctly use statistical methods, including hypothesis testing, p values and appropriate measures of variability</li> </ul>
<b>Assessment:</b>	A group bioinformatics assignment (hurdle requirement) A mock grant application detailing the hypothesis, aims, background, experimental design and significance of the Honours research project (hurdle requirement) assessed by a 1.5 hour written exam (50%) A 1.5 hour written exam on the interpretation and analysis of a take-home paper to assess interpretive and analytical skills (50%) following ten hours of lectures & tutorials on critical thinking (hurdle requirement)
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<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>	<p>At the completion of this subject, students should have:</p> <ul style="list-style-type: none"> <li># The ability to articulate knowledge and persuasive intellectual arguments in a particular research discipline</li> <li># The ability to critically appraise and comment on the scientific literature</li> <li># A strong sense of intellectual integrity and the ethics of scholarship</li> <li># A clear understanding of statistical methods</li> <li># The ability to organise, prioritise and manage time</li> </ul>
<b>Links to further information:</b>	<a href="http://www.paediatrics.unimelb.edu.au/">http://www.paediatrics.unimelb.edu.au/</a>
<b>Notes:</b>	Students must be enrolled in the Bachelor of Biomedicine (Honours), Bachelor of Science (Honours) or Postgraduate Diploma in Science to complete this subject.
<b>Related Majors/Minors/Specialisations:</b>	Paediatrics