

# Medical Biology

<b>Year and Campus:</b>	2016
<b>Coordinator:</b>	Dr Keely Bumsted O'Brien, Dr Melissa Call, Dr Leigh Coultas
<b>Contact:</b>	<p><b>Coordinators:</b></p> <p>Dr Keely Bumsted OBrien  <a href="mailto:bumsted-obrien@wehi.edu.au">bumsted-obrien@wehi.edu.au</a> (mailto:bumsted-obrien@wehi.edu.au)</p> <p>Dr Melissa Call  <a href="mailto:mjcall@wehi.edu.au">mjcall@wehi.edu.au</a> (mailto:mjcall@wehi.edu.au)</p> <p>Dr Leigh Coultas  <a href="mailto:lcoultas@unimelb.edu.au">lcoultas@unimelb.edu.au</a> (mailto:lcoultas@unimelb.edu.au)</p> <p><b>Administrative Coordinator:</b></p> <p>Ms Sue Hardy  <a href="mailto:shardy@wehi.edu.au">shardy@wehi.edu.au</a> (mailto:shardy@wehi.edu.au)</p> <p><b>Currently enrolled students:</b></p> <p><b>Contact Stop 1</b> (<a href="http://students.unimelb.edu.au/stop1">http://students.unimelb.edu.au/stop1</a>)</p>
<b>Overview:</b>	<p>The Honours program in The Department of Medical Biology is a fourth-year program, which gives students the opportunity to apply and extend their previous science, biomedical or health science studies to a cutting edge research project. Projects will be undertaken at The Walter &amp; Eliza Hall Institute of Medical Research and supervised by experienced full-time research staff. The Honours program comprises:</p> <p>The Advanced Coursework (25 points) component is designed to develop a greater understanding of key topics of research in biochemistry and molecular biology, including areas such as genome sciences, structural biology, bioinformatics and molecular cell biology. Further, students will acquire an appreciation and understanding of new technologies and approaches that are used in modern biochemical and molecular biology research programs and develop a greater understanding of the scientific process as well as access to key literature and data sets. The Research Project (75 points) provides the students with their first real-life experience of medical research. During the year, students will review and analyse the literature, design and perform their own experiments, and report the results of their research in a thesis, which constitutes the major piece of assessed work of the Honours program. The student will also present their research at a seminar at the end of the year.</p>
<b>Learning Outcomes:</b>	<p>The Honours program in Medical Biology is designed to:</p> <ul style="list-style-type: none"> <li>• Enhance the student's knowledge of medical biology in the areas of Immunology, Cancer Biology, Haematology, Molecular Biology, Parasitology, Developmental Biology, Neurobiology, or Mammalian genetics.</li> <li>• Introduce the student to current literature and techniques in specialised areas.</li> <li>• Engage the student in original, supervised research within a laboratory of The Walter and Eliza Hall Institute of Medical Research.</li> </ul>
<b>Structure &amp; Available Subjects:</b>	<p>The Honours program consists of 100 credit points completed over 12 months full time (or part time equivalent) comprising of two (2) Advanced Coursework subjects and a Research Project. To be awarded Honours with a specialisation in Medical Biology (Walter and Eliza Hall Institute), students must successfully complete the following:</p> <ul style="list-style-type: none"> <li># BMSC40004 - Approaches to Medical Research (12.5 points)</li> <li># BMSC40007 - Postgraduate Lectures in Medical Biology (12.5 points)</li> <li># BMSC40003 and BMSC40008 - Medical Biology Research Project (75 points)</li> </ul> <p>There are no elective subjects in this Honours program.</p>
<b>Subject Options:</b>	<p><b>Coursework Component</b></p> <p>Students must complete 25 credit points of advanced coursework subjects. This is achieved by enrolling in the following subjects in the appropriate semesters.</p>

	Subject	Study Period Commencement:	Credit Points:
	BMSC40004 Approaches To Medical Research	Semester 1	12.50
	BMSC40007 Postgraduate Lectures in Medical Biology	Year Long	12.50
	<b>Research Component</b>		
	Students must complete a total of 75 credit points of research across the duration of the Honours program. This is achieved by enrolling in a combination of the following subjects in the appropriate semesters.		
	Subject	Study Period Commencement:	Credit Points:
	BMSC40003 Medical Biology Research Project	Semester 1	31.25
	BMSC40008 Medical Biology Research Project	Semester 2	43.75
<b>Links to further information:</b>	<a href="http://www.wehi.edu.au">http://www.wehi.edu.au</a>		
<b>Related Course(s):</b>	Bachelor of Biomedicine (Degree with Honours) Bachelor of Science (Degree with Honours)		