

# Biochemistry and Molecular Biology

<b>Year and Campus:</b>	2014													
<b>Coordinator:</b>	Professor Malcolm McConville													
<b>Contact:</b>	<p>Academic Coordinator: Professor Malcolm McConville <a href="mailto:malcolmm@unimelb.edu.au">malcolmm@unimelb.edu.au</a> (mailto:malcolmm@unimelb.edu.au)</p> <p>Administrative Coordinator: Irene Koumanelis <a href="mailto:i.koumanelis@unimelb.edu.au">i.koumanelis@unimelb.edu.au</a> (mailto:i.koumanelis@unimelb.edu.au)</p>													
<b>Overview:</b>	<p>The Honours degree in Biochemistry and Molecular Biology is a one-year, full-time course of advanced study (25%) and research (75%). Completion of Honours allows students to continue onto higher degree study (eg PhD) and provides intensive practical training in current experimental techniques, the opportunity to develop oral and written communication skills and the experience of working in an active, multidisciplinary research environment. Most students start their studies at the beginning of Semester one (February), although mid-year entry (August) is also a possibility. Entry is by merit and open to Science/Biomedical graduate who have completed a major in Biochemistry and Molecular Biology (or related discipline), and obtained an average of at least 3rd class Honours in their third year.</p>													
<b>Learning Outcomes:</b>	<ul style="list-style-type: none"> <li>• Extend knowledge of Biochemistry and Molecular Biology and related areas</li> <li>• Enhance ability to find and critically assess existing scientific information</li> <li>• Develop skills in communication</li> <li>• Experience research with the advice and guidance of one of the research groups within or affiliated with the department.</li> </ul> <p>By the end of the year it is expected that you will have learnt from first-hand experience how to formulate questions, design and conduct experiments, analyse and evaluate data, and write a scientific paper/report.</p>													
<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 Biochemistry and Molecular Biology, students must successfully complete the following:</p> <ul style="list-style-type: none"> <li># BCMB40002 Advanced Studies in Biochemistry A (12.5 points)</li> <li># BCMB40007 Advanced Studies in Biochemistry B (12.5 points)</li> <li># BCMB40001 and BCMB40006 - Biochemistry 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> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BCMB40007 Advanced Studies in Biochemistry B</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BCMB40002 Advanced Studies in Biochemistry A</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p><b>Research Component</b></p> <p>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.</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> </tbody> </table>		Subject	Study Period Commencement:	Credit Points:	BCMB40007 Advanced Studies in Biochemistry B	Semester 1	12.50	BCMB40002 Advanced Studies in Biochemistry A	Semester 1	12.50	Subject	Study Period Commencement:	Credit Points:
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	BCMB40001 Biochemistry Research Project	Semester 1	25
	BCMB40006 Biochemistry Research Project	Semester 2	50
<b>Links to further information:</b>	<a href="http://www.biochemistry.unimelb.edu.au/">http://www.biochemistry.unimelb.edu.au/</a>		
<b>Related Course(s):</b>	Bachelor of Biomedicine (Degree with Honours) Bachelor of Science (Degree with Honours)		