

BCMB40002 Advanced Studies in Biochemistry A

Credit Points:	12.5
Level:	4 (Undergraduate)
Dates & Locations:	2016, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 18 Total Time Commitment: 18 contact hours with an estimated total time commitment of 170 hours (including non-contact time)
Prerequisites:	Students must be enrolled in the Bachelor of Biomedicine (Honours), Bachelor of Science (Honours) or Master of Science to complete this subject. Students must have completed a minimum of two 3rd year units in Biochemistry and Molecular Biology, or equivalent.
Corequisites:	Please refer to the notes section below for details regarding the subjects to be completed.
Recommended Background Knowledge:	Undergraduate three year sequence with major in Biochemistry and Molecular Biology (or equivalent)
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>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.</p> <p>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</p></p>
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Subject Overview:	This subject is taken together with BCMB40007. Students undertaking these units must complete a common coursework module, 'Experimental Design and Statistics' and select two additional thematic modules (from a selection of three modules) that cover advanced techniques in Biochemistry and Molecular Biology modules. The 'Experimental Design and Statistics' module will cover aspects of experimental design, ethics and biostatistical methods used in Biochemistry and Molecular Biology. The thematic modules will cover new developments in the genome sciences, structural biology, bioinformatics and molecular cell biology and comprise advanced lectures as well as library work.
Learning Outcomes:	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. To acquire an appreciation and understanding of new technologies and

	approaches that are used in modern biochemical and molecular biology research. To develop a greater understanding of scientific process and access to key literature and data sets.
Assessment:	Assessment for the 'Experimental Design and Statistics module' will be by written exam, that will be held near the end of semester. Assessment of the thematic module will be a written assignment, up to 5000 words. These assignments will be submitted within two weeks of completion of lectures during first semester. The final assessments for each of the modules are of equal weighting.
Prescribed Texts:	None
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<ul style="list-style-type: none"> # To develop a mature understanding of the experimental framework of hypothesis formulation and testing as applied to research in the broad area of biochemical and molecular biology. # To develop skills in critical analysis of published experimental data and findings. # To develop skills in oral and written presentation of scientific concepts.
Links to further information:	http://www.biochemistry.unimelb.edu.au/
Notes:	<p>To be awarded Honours with a specialisation in Biochemistry and Molecular Biology, students must successfully complete the following:</p> <p>Semester 1 BCMB40002 Advanced Studies in Biochemistry A (12.5 points) BCMB40007 Advanced Studies in Biochemistry B (12.5 points) BCMB40001 Biochemistry Research Project (25 points)</p> <p>Semester 2 BCMB40006 Biochemistry Research Project (50 points)</p>
Related Course(s):	Master of Biomedical Science
Related Majors/Minors/Specialisations:	Biochemistry and Molecular Biology