BCMB40007 Advanced Studies in Biochemistry B

Credit Points:	12.50
Level:	4 (Undergraduate)
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 18 Total Time Commitment: 100 hours
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:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Coordinator:	Prof Malcolm Mcconville
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Subject Overview:	This subject will include two modules covering topics in biochemistry and molecular biology. # The first module will cover new developments in the genome sciences, structural biology, bioinformatics and molecular cell biology and comprise advanced lectures as well as library work. # The second module will cover aspects of experimental design, ethics and biostatistical methods used in Biochemistry and Molecular Biology.
Objectives:	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 first module will be a written assignment, up to 5000 words, worth 50%.This assignment will be submitted within two weeks of completion of lectures during first semester. Assessment for the second module will be a written exam, worth 50%, that will be held near the end of semester.

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:	# 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:	To be awarded Honours with a specialisation in Biochemistry and Molecular Biology, students must successfully complete the following: **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) **Semester 2** BCMB40006 Biochemistry Research Project (50 points)
Related Majors/Minors/ Specialisations:	Biochemistry and Molecular Biology