BMSC40004 Approaches To Medical Research

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: 22 Total Time Commitment: 120 hours
Prerequisites:	Students must be enrolled in the Bachelor of Biomedicine (Honours) or Bachelor of Science (Honours) to complete this subject.
Corequisites:	

Subject	Study Period Commencement:	Credit Points:
BMSC40007 Postgraduate Lectures in Medical Biology	Year Long	12.50
BMSC40003 Medical Biology Research Project	Semester 1	25

Recommended Background Knowledge:	Completed three-year undergraduate degree in a relevant science discipline.
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 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: http://www.services.unimelb.edu.au/disability/
Coordinator:	Dr Keely Bumsted O'Brien, Dr Philippe Bouillet
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Subject Overview:	Introductory lectures to biomedical research incorporating experimental, statistical, regulatory, ethical and presentation themes that will prepare for successful conduction and completion of an Honours project in biomedical science. (1) Introductory Lectures held in February and March, themes: experimental methods, oral and written presentation, scientific responsibilities, scientific misconduct, animal ethics regulation, information technologies, occupational health and safety (8 contact hours). (2) Specialist Sessions held from March to May, themes: commercialisation, flow cytometry, cell culture, high-throughput screening, monoclonal antibody production, proteomics, sequencing, imaging and microscopy, Office of the Gene Technology Regulator (OGTR) regulations (6 contact hours) (3) Lectures: experimental design and statistics, held in February to May (8 contact hours)

Objectives:	To provide an introduction to biomedical research including experimental methods, experimental design and statistics, oral and written presentation, scientific responsibilities, scientific misconduct, animal ethics regulation and information technologies.
Assessment:	One written assignment (2000 words), 2 days allowed, in May – 60%One written examination, 1 hr duration, in April –40%
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:	Development of an understanding of experimental design, approach and evaluation with consideration of the regulatory framework and ethical issues.
Links to further information:	http://www.wehi.edu.au/
Related Majors/Minors/ Specialisations:	Medical Biology