

BMSC40004 Approaches To Medical Research

Credit Points:	12.50
Level:	4 (Undergraduate)
Dates & Locations:	2011, 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:	Please refer to the notes section below for details regarding the subjects to be completed.
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 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:	Dr Anne Voss, Dr Philippe Bouillet
Contact:	Academic Coordinators: Dr Anne Voss and Dr Philippe Bouillet avoss@wehi.edu.au and bouillet@wehi.edu.au Administrative Coordinator: Mr Frank Draffen draffen@wehi.edu.au
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 h 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/
Notes:	<p>To be awarded Honours with a specialisation in Medical Biology (Walter and Eliza Hall Institute), students must successfully complete the following:</p> <p>Semester 1 BMSC40004 Approaches to Medical Research (12.5 points) BMSC40007 Postgraduate Lectures in Medical Biology (12.5 points) BMSC40003 Medical Biology Research Project (25 points)</p> <p>Semester 2 BMSC40008 Medical Biology Research Project (50 points)</p>
Related Course(s):	Bachelor of Biomedicine (Degree with Honours) Bachelor of Science (Degree with Honours)