

MC-SCIBHS Master of Science (Biomedical and Health Sciences)

Year and Campus:	2012 - Parkville							
CRICOS Code:	062189B							
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees							
Level:	Graduate/Postgraduate							
Duration & Credit Points:	200 credit points taken over 24 months full time. This course is available as full or part time.							
Coordinator:	Professor Lea Delbridge is the Stream Coordinator. Enquiries should be directed to your supervisor or the Melbourne Graduate School of Science							
Contact:	<p>Melbourne Graduate School of Science Faculty of Science The University of Melbourne Tel: + 61 3 8344 6128 Fax: + 61 3 8344 3351 Web: http://graduate.science.unimelb.edu.au (http://graduate.science.unimelb.edu.au/)</p>							
Course Overview:	<p>The Master of Science (Biomedical and Health Sciences) is a coursework masters degree incorporating a substantial research project. The Master of Science gives students the opportunity to undertake a substantive research project in a field of choice as well as a broad range of coursework subjects including a professional skills component, as a pathway to PhD study or to the workforce.</p>							
Objectives:	<p>The objectives of this course are to provide students with skills in:</p> <ul style="list-style-type: none"> # conducting research in biomedical and health sciences; # designing experiments; # taking responsibility for managing a research project; # preparing and giving an oral and written presentation of the results; # expressing intellectual, scientific arguments; and # assimilating and critically evaluating existing knowledge within a scientific paradigm. 							
Course Structure & Available Subjects:	<p>All students must complete 200 points including:</p> <ul style="list-style-type: none"> # Discipline Core subjects (50 points); # Professional Skills subjects (25 points); # A 125 point research project. 							
Subject Options:	<p>Discipline Core subjects</p> <p>Students must complete 50 points of discipline subjects including the core subject listed below. Students may select approved subjects relevant to the proposed research project from those within the Master of Science programs, in particular the Master of Science (Genetics), Master of Science (Zoology). They may also take subjects from the Master of Biotechnology and Masters by coursework programs offered by the Faculty of Medicine, Dentistry and Health Sciences. A maximum of two discipline subjects may be taken at 3rd year level.</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOM40001 Introduction To Biomedical Research</td> <td>February</td> <td>12.50</td> </tr> </tbody> </table> <p>Professional Skills subjects</p> <p>Students must complete 25 points from the following subjects:</p>		Subject	Study Period Commencement:	Credit Points:	BIOM40001 Introduction To Biomedical Research	February	12.50
Subject	Study Period Commencement:	Credit Points:						
BIOM40001 Introduction To Biomedical Research	February	12.50						

Subject	Study Period Commencement:	Credit Points:
SCIE90007 E-Science	Not offered 2012	12.50
SCIE90005 Ethics and Responsibility in Science	Semester 2	12.50
BUSA90403 Business Tools: Money People & Processes	Semester 2	12.50
MAST90045 Systems Modelling and Simulation	Semester 1	12.50
MAST90044 Thinking and Reasoning with Data	Semester 1	12.50
SCIE90012 Science Communication	Semester 2	12.50
MAST90007 Statistics for Research Workers	June	12.50
SCIE90013 Communication for Research Scientists	Not offered 2012	12.50
BUSA90471 Business Tools: The Market Environment	Semester 1	12.50

Research Project

Students must complete a research project under the supervision of a staff member in an academic unit (a Department or an affiliated Institute) of the Melbourne Medical School within the Faculty of Medicine, Dentistry and Health Sciences. Depending on supervisor and project availability, research is undertaken in a range of locations/discipline areas including: Anatomy and Cell Biology, Biochemistry and Molecular Biology (Biol21), Medicine (Royal Melbourne Hospital/Western Hospital and St Vincent's Hospital), Microbiology and Immunology, Neurosciences, Nursing, Oral Biology (Dental Science), Otolaryngology (Hearing Sciences), Ophthalmology (Eye Research), Paediatrics, Pharmacology, Physiology, Psychiatry, Radiology and Surgery (Austin Hospital, Royal Melbourne Hospital/Western Hospital and St Vincent's Hospital).

The project will be taken over four consecutive semesters beginning in mid-February contemporaneous with *BIOM40001 Introduction To Biomedical Research* and continue for up to 84 weeks until the end of the fourth semester, minus recreation leave of between 4 and 8 weeks. For mid-year entry, the research project will begin in the first week of semester 2. For how long and at what time within the enrolment the actual period of leave is to be taken needs to be negotiated with the student's supervisor.

The Research Project will be due for submission by the end of the formal examination period of the fourth semester of enrolment if an earlier date is not specified.

Students may enrol in a combination of research project subjects and coursework subjects as long as once the Research Project is commenced, the consecutive enrolment requirement is met and to ensure they have completed a total of 125 points for the research project by the end of their course.

Some enrolment examples are available on the Melbourne Graduate School website

- <http://graduate.science.unimelb.edu.au/programs/msc/biomed.php> (<http://graduate.science.unimelb.edu.au/programs/msc/biomed.php>). Students are encouraged to review these examples to inform their ISIS enrolment.

Subject	Study Period Commencement:	Credit Points:
BIOM90001 Project in Biomedical & Health Sciences	Semester 1, Semester 2	12.50
BIOM90003 Project in Biomedical & Health Sciences	Semester 1, Semester 2	25
BIOM90004 Project in Biomedical & Health Sciences	Semester 1, Semester 2	37.50
BIOM90005 Project in Biomedical & Health Sciences	March, Semester 2	50

Entry Requirements:

An undergraduate degree with a major in biology or biomedicine, with at least an H3 (65%) in the major, or equivalent.

Quotas may be applied and preference may be given to applicants with evidence of appropriate preparation or potential to undertake research. Entry is subject to the capacity of a participating department to provide adequate supervision in a research project appropriate to the interests

	and preparation of the individual student and may be subject to the agreement of a member of academic staff to supervise the project module. Selection is not automatic and, in particular, is subject to competition.
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
Further Study:	The Master of Science offers a pathway to a PhD.
Graduate Attributes:	Graduates will: have the ability to demonstrate advanced independent critical enquiry, analysis and reflection; have a strong sense of intellectual integrity and the ethics of scholarship; have in-depth knowledge of their specialist discipline(s); reach a high level of achievement in writing, research or project activities, problem-solving and communication; be critical and creative thinkers, with an aptitude for continued self-directed learning; be able to examine critically, synthesise and evaluate knowledge across a broad range of disciplines; have a set of flexible and transferable skills for different types of employment; and be able to initiate and implement constructive change in their communities, including professions and workplaces.