

MEDI40005 Biomedicine Research Project - St Vincents

Credit Points:	25
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: This subject is an individual research project and weekly contact hours will vary depending on the nature of the project. Total Time Commitment: Students should discuss total time commitment with their supervisor but as a guide, a student would be expected to be engaged in their research for an average of thirty hours per week over two semesters.
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:	None
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/
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Subject Overview:	<p>The honours program in the Department of Medicine (St Vincent's Hospital) involves advanced coursework and a research project.</p> <p>The key objectives of the research project in biomedicine are to complete a research project under the guidance of a nominated supervisor in a research laboratory from February to November.</p> <p>The course aims to provide advanced training in biomedical research in a multidisciplinary research environment.</p> <p>Skills will be obtained in experimental design, specialized laboratory techniques, data analysis and interpretation. Particular attention will also be given to the development of written and presentation skills.</p> <p>The research project is anticipated to culminate in an original research publication.</p> <p>Students will be enrolled in a combination of the research project subjects indicated below to ensure they have completed a total of 75 points for the research project by the end of their course.</p> <p>MEDI40005 Biomedicine Research Project – 25 points (semester 1) MEDI4xxxx Biomedicine Research Project – 50 points (semester 2)</p>
Objectives:	<ul style="list-style-type: none"> • To develop skills in critical analysis of scientific knowledge and integrate it into the broader context of the research field. • To develop skills in appropriate experimental design and hypothesis, formulate aims to address the hypotheses, and engage in discussion with other scientists.

	<ul style="list-style-type: none"> • To develop skills in advanced laboratory techniques. • To develop skills in data interpretation and statistical analysis. • To develop oral and written presentation skills, presenting original scientific data to an expert audience. • To collate a body of original scientific results into a minor thesis that will be assessed by two expert researchers.
Assessment:	Literature Review (5%): 5000-6000 words Final Oral Thesis Defense (10%): final oral presentation of 15 minutes followed by a 5 minutes thesis defense, end of semester 2 Thesis (55%) : less than 10,000 words in length (exclusive of figures, figure legends, tables, bibliographies and appendices), submitted end of semester 2 Supervisor/ Laboratory Competence (5%): ongoing assessment of student's commitment and competence
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:	<p>Students will learn to</p> <ul style="list-style-type: none"> • critically assess literature • accept or reject information provided by others • integrate scientific information into an information framework • identify unresolved scientific questions • identify the best experimental approaches to address open questions • polish their oral and written presentation skills • develop time management skills
Links to further information:	http://www.medstv.unimelb.edu.au/
Notes:	<p>To be awarded Honours with a specialisation in Medicine (St. Vincents Hospital), students must successfully complete the following:</p> <p>Semester 1 BIOM40001 Introduction to Biomedical Research (12.5 points) MEDI40006 Biomedical Advanced Coursework MEDI40005 Biomedicine Research Project St. Vincents (25 points)</p> <p>Semester 2 MEDI40013 Biomedicine Research Project St. Vincents (50 points)</p>
Related Course(s):	Bachelor of Biomedicine (Degree with Honours)