

PATH40002 Critical Analysis of Pathology Research

Credit Points:	12.5						
Level:	4 (Undergraduate)						
Dates & Locations:	2016, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.						
Time Commitment:	Contact Hours: 30 Total Time Commitment: 30 contact hours with an estimated total time commitment of 170 hours (including non-contact time)						
Prerequisites:	Students must be enrolled in the Bachelor of Biomedicine (Honours) or the Bachelor of Science (Honours) to complete this subject. <table border="1" data-bbox="387 640 1485 786"> <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>	Subject	Study Period Commencement:	Credit Points:	BIOM40001 Introduction To Biomedical Research	February	12.50
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Corequisites:	<table border="1" data-bbox="387 813 1485 958"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>PATH40001 Pathology Research Project</td> <td>Semester 1</td> <td>25</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	PATH40001 Pathology Research Project	Semester 1	25
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Recommended Background Knowledge:	It is recommended that students have a Pathology major that includes PATH30004 Advanced Investigation of Human Disease as their elective. <table border="1" data-bbox="387 1070 1485 1216"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>PATH30004 Advanced Investigation of Human Disease</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	PATH30004 Advanced Investigation of Human Disease	Semester 2	12.50
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PATH30004 Advanced Investigation of Human Disease	Semester 2	12.50					
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 Student Equitable Adjustment Procedure (SEAP), 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 Theo Mantamadiotis						
Contact:	Subject Coordinator: Dr Theo Mantamadiotis theom@unimelb.edu.au (mailto:theom@unimelb.edu.au) Administrative Coordinator: Ms Lesley Robinson lesleyr@unimelb.edu.au (mailto:lesleyr@unimelb.edu.au)						
Subject Overview:	The Honours program in the Department of Pathology provides an introduction to the challenging area of investigation of disease processes at the cellular and molecular level. In this						

	<p>subject, advanced scientific lectures will be provided by experienced researchers discussing current scientific methods and their application to the study of pathological diseases. These lectures provide a foundation for critical analysis tasks which are consolidated during tutorials which assist students in reading and understanding scientific research articles. Students will be taught key learning objectives including, the application of scientific methods, how to write manuscript titles and abstracts, and in the art of critical analysis of scientific papers. The course is composed of 12 lectures and up to 8 tutorials. The lectures and tutorials are held during first semester.</p>
Learning Outcomes:	<p>The objectives of this course include –</p> <ul style="list-style-type: none"> • To ensure students develop competent skills in reading and understanding of scientific research articles. • To acquire skills for the critical analysis of research articles. • To appreciate the importance of constructing a title and composing an abstract that conveys the significance of the research problem. • To be able to identify the purpose of a research article by determining the proposed hypothesis or aims. • To appreciate the technical basis of the proposed research and determine whether the appropriate methods were used to address the aims. • To appreciate the need for good experimental design, the appropriate use of controls and standards, the clear presentation of data in graphs, tables or images, validation of results through statistical testing and concise description of the experimental results. • To generate awareness of how a discussion summarises the results relating to the hypothesis and reconciles the results with published literature. • To become familiar with being able to extrapolate new research ideas from the published research.
Assessment:	<p>An oral presentation critically evaluating components of a research paper due in Semester 1 (20%) Students are required to perform critical analysis of a research article. This is an open book examination (4 hour duration) due in Semester 1 (80%)</p>
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>The emphasis of this course is to introduce students to the importance of reading research articles effectively by learning critical analysis and evaluation skills.</p> <p>This will enable students to:</p> <ul style="list-style-type: none"> • Be subjective when reading research articles. • Appreciate the importance of presenting results in a format that demonstrates good scientific process.
Links to further information:	http://www.path.unimelb.edu.au/
Notes:	<p>Students interested in a Pathology specialisation must have a:</p> <p>Pathology major</p> <p>OR</p> <p>PATH30001 (../view/2011/PATH30001) and PATH30002 (../view/2011/PATH30002) or PATH30001 (../view/2011/PATH30001) and a SCIE30001 (../view/2011/SCIE30001) project completed in the Department of Pathology in association with a major in another Biomedical discipline</p> <p>OR</p> <p>Students interested in honours in Pathology who do not have the above prerequisites but have practical experience in another biomedical science discipline should contact the Pathology Honours coordinator to discuss their eligibility for honours in Pathology.</p>

Related Majors/Minors/ Specialisations:	Pathology
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