

# MEDS30004 Advanced Medical Science 1

<b>Credit Points:</b>	50
<b>Level:</b>	3 (Undergraduate)
<b>Dates &amp; Locations:</b>	2016, Parkville This subject commences in the following study period/s: July, Parkville - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 144 Total Time Commitment: 170 hours per 12.5 credit point subject
<b>Prerequisites:</b>	To enrol in this subject, you must be admitted in the Bachelor of Medical Science. This subject is not available for students admitted in any other courses.
<b>Corequisites:</b>	N/A
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Commonwealth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this course are articulated in the Course Overview, Objectives 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 may impact on meeting the requirements of this course are encouraged to discuss this matter with the Student Equity and Disability Support Team: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Coordinator:</b>	Dr Justin Bilszta
<b>Contact:</b>	<p><b>Medical Education Unit</b>  <b>Faculty of Medicine, Dentistry and Health Sciences</b></p> <p>Currently enrolled and future students:</p> <ul style="list-style-type: none"> <li># General information: <a href="http://medicine.unimelb.edu.au/study-here/custom_programs/bachelor_of_medical_science">http://medicine.unimelb.edu.au/study-here/custom_programs/bachelor_of_medical_science</a> (<a href="http://medicine.unimelb.edu.au/study-here/custom_programs/bachelor_of_medical_science">http://medicine.unimelb.edu.au/study-here/custom_programs/bachelor_of_medical_science</a>)</li> <li># Email: <a href="mailto:bmedsci-info@unimelb.edu.au">bmedsci-info@unimelb.edu.au</a> (<a href="mailto:bmedsci-info@unimelb.edu.au">mailto:bmedsci-info@unimelb.edu.au</a>)</li> </ul>
<b>Subject Overview:</b>	<p>The primary aim of the Bachelor of Medical Science is to provide an experiential introduction to the process of biomedical research. The AMS program allows students to:</p> <ul style="list-style-type: none"> <li># practice the concepts of project design, ethical consideration and application of research methods;</li> <li># develop skills in the assembling and evaluation of scientific data to provide a scientific rationale for updating medical practice and treatment and/or understanding the mechanisms of disease;</li> <li># comprehend the selection of appropriate statistical techniques to appraise scientific data;</li> <li># assess the benefits and limitations of research an area/discipline of clinical interest;</li> <li># demonstrate an understanding and appreciation of the diversity and breadth of biomedical research;</li> <li># demonstrate autonomy and independence in defining research methods, locating relevant resources and critically evaluating evidence and;</li> <li># actively participate in improving knowledge in a specific areas of medicine by critical review of scientific and medical evidence.</li> </ul>

<b>Learning Outcomes:</b>	<p>The primary objective of this subject is for students to obtain experience in conducting biomedical research. In detail the objectives are to:</p> <ul style="list-style-type: none"> <li># provide an introduction to the processes of research work in a field related to medicine, including critical appraisal of the literature.</li> <li># enable development of skills in the ways in which knowledge (evidence) should be assembled and evaluated to provide a scientific rationale for updating medical practice and treatment.</li> <li># develop skills in the use of simple statistical techniques when appraising health data.</li> <li># foster an understanding of the benefits of research and the value of each health professional contributing to the advancement of knowledge.</li> <li># encourage an understanding of the diversity and breadth of medicine.</li> <li># encourage the development of autonomy and independence in defining areas for study, locating relevant resources and evaluating information.</li> <li># enhance oral and written communication skills.</li> </ul>
<b>Assessment:</b>	Successful completion of an extended literature review (100%). Penalties apply for late submission of the research report. An initial penalty of 5% applies to any submission after the due date, and a further 1% for every additional day beyond three days late, unless an extension has been granted prior to the submission date.
<b>Prescribed Texts:</b>	All class materials will be provided.
<b>Recommended Texts:</b>	Nil
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<ul style="list-style-type: none"> <li># Develop skills in research and critical appraisal of the literature;</li> <li># Develop skills in using and evaluation evidence;</li> <li># Increase the understanding and use of statistical techniques;</li> <li># Perception of the benefits and value of research;</li> <li># Encourage an understanding of diversity in medicine;</li> <li># Encourage independence in defining areas for study;</li> <li># Enhance oral and written communication skills;</li> <li># Encourage learning in medically relevant areas.</li> </ul>
<b>Links to further information:</b>	<a href="http://medicine.unimelb.edu.au/study-here/custom_programs/bachelor_of_medical_science">http://medicine.unimelb.edu.au/study-here/custom_programs/bachelor_of_medical_science</a>
<b>Related Course(s):</b>	Bachelor of Medical Science