

## SURG40002 Advanced Studies in Biomedicine: Surgery

<b>Credit Points:</b>	12.50								
<b>Level:</b>	4 (Undergraduate)								
<b>Dates &amp; Locations:</b>	This subject is not offered in 2014.								
<b>Time Commitment:</b>	Contact Hours: 36 Total Time Commitment: 120 hours								
<b>Prerequisites:</b>	Students must be enrolled in the Bachelor of Biomedicine (Honours), Bachelor of Science (Honours) or Master of Science to complete this subject.								
	<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>	Subject	Study Period Commencement:	Credit Points:	BIOM40001 Introduction To Biomedical Research	February	12.50		
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<b>Corequisites:</b>	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>SURG40005 Surgery and Biomedicine Research Project</td> <td>Semester 1</td> <td>25</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	SURG40005 Surgery and Biomedicine Research Project	Semester 1	25		
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<b>Recommended Background Knowledge:</b>	Undergraduate 3 year sequence in relevant experimental science discipline.								
<b>Non Allowed Subjects:</b>	None								
<b>Core Participation Requirements:</b>	<p>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: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a></p>								
<b>Contact:</b>	<p>Academic Coordinator: Dr Eleanor Ager <a href="mailto:eager@unimelb.edu.au">eager@unimelb.edu.au</a> (<a href="mailto:eager@unimelb.edu.au">mailto:eager@unimelb.edu.au</a>)</p> <p>Administrative Coordinator: Ms Jo Mayall <a href="mailto:jmayall@unimelb.edu.au">jmayall@unimelb.edu.au</a> (<a href="mailto:jmayall@unimelb.edu.au">mailto:jmayall@unimelb.edu.au</a>)</p>								
<b>Subject Overview:</b>	<p>This subject aims to extend the student's education and intellectual development in Biomedicine, Physiology and Surgery through the attendance and participation in Workshops, Research Seminars and Journal Club presentations. The students will be exposed to experimental design and development of a question as an approach to research, covering the main research areas of the department; Cancer, Transplantation, Liver regeneration, and Immunobiology. The students will attend three different series of seminars; The first series of lectures/workshops is designed to assist the student in acquiring necessary skills to successfully complete the B Sc Hons/B Biomed Honours course. This program includes workshops covering information relating to oral presentations, making scientific posters, and preparation of abstracts (approximately 12 hours in total). The second series is the Surgery/Ludwig Research Seminar Series (LICR/DOS) held on a weekly basis (approximately 12 hours in total). These talks cover a wide range of topics of central interest to contemporary biomedical research and are presented by external invited speakers and senior scientists within the departments. Thirdly, students will attend the weekly Departmental Research In Progress and Journal Club Seminars</p>								

	(50 minutes duration, which are given by research staff and postgraduate students and are held throughout the year on a weekly basis (approximately 12 hours).
<b>Learning Outcomes:</b>	To develop student awareness and knowledge of how contemporary biomedical research questions are addressed in a range of areas. Students will gain a specific understanding of the successful experimental approaches and strategies used in the research areas of focus within the Department of Surgery: Gastrointestinal and Uro-genital Cancer, Transplantation, Liver regeneration, and Immunobiology. Students will develop knowledge which they can and are encouraged to apply to their own research projects.
<b>Assessment:</b>	<ul style="list-style-type: none"> <li>• Assignment (up to 3000 words) based on one of the focus areas of research with the department, not associated with the research project (45%)</li> <li>• An oral presentation (10 minutes) including response to questions (5 minutes) on assignment topic (45%)</li> <li>• Co-ordinator assessment of attendance and participation in Continuing Education Seminars during semester 1 (10%)</li> </ul>
<b>Prescribed Texts:</b>	No specific text. Recommended reading may be provided prior to some seminars/journal clubs/workshops.
<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>	<p>Overall the aim of this subject is to provide students with first-rate skills that will enhance their application for a Research Higher Degree or provide the necessary skills to pursue a successful career in one of the many science and technology fields:</p> <ul style="list-style-type: none"> <li>• Design of a scientific project and consideration of ethical principles and processes used in biological research;</li> <li>• Utilising information and data available in scientific and medical literature, and identification of key data and essential factors from a large body of information;</li> <li>• Critical analysis of complex information, including statistical assessment of experimental data;</li> <li>• Ability to contribute to intellectual discussion in research;</li> <li>• Development of understanding of research concepts to generate new ideas for experiments;</li> <li>• Acquiring excellent oral and written communication skills.</li> </ul>
<b>Links to further information:</b>	<a href="http://www.austinsurgery.unimelb.edu.au/">http://www.austinsurgery.unimelb.edu.au/</a>
<b>Notes:</b>	
<b>Related Majors/Minors/Specialisations:</b>	Surgery (Austin Health)