

SURG40002 Advanced Studies in Biomedicine: Surgery

Credit Points:	12.50
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: 36 Total Time Commitment: 120 hours
Prerequisites:	Students must be enrolled in the Bachelor of Biomedicine (Honours), Bachelor of Science (Honours) or Master of Science to complete this subject.
Corequisites:	Please refer to the notes section below for details regarding the subjects to be completed.
Recommended Background Knowledge:	Undergraduate 3 year sequence in relevant experimental science discipline.
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:	This subject aims to extend the student's education and intellectual development in Biomedicine, Physiology and Surgery through the attendance and participation in Research Seminars and Journal Club presentations. The students will be exposed to experimental design and development of a question as an approach to research mainly chosen to cover each of the main research areas of the department; Cancer, Transplantation, Liver regeneration, and Immunobiology. There are three different series of seminars which the students attend. Students attend the Surgery/Ludwig Research Seminar Series (LICR/DOS) held on a weekly basis (approximately 26 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. In addition, students will attend the Departmental Research In Progress and Journal Club Seminars (50 minutes duration, which are given by research staff and postgraduate students and are held throughout the year on a weekly basis (approximately 10 hours). The third 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, poster presentations, and preparation of abstracts and posters.
Objectives:	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.
Assessment:	<ul style="list-style-type: none"> • Assignment (up to 3000 words) based on one of the focus areas of research with the department, not associated with the research project (45%) due mid-May • An oral presentation (10 minutes) including response to questions (5 minutes) on assignment topic (45%) May • Participation in Research in Progress/Journal Club, LICR/DOS and Continuing Education Seminars (10%) March to mid-October
Prescribed Texts:	No specific text. Recommended reading may be provided prior to some seminars/journal clubs/workshops.
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>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"> • Design of a scientific project and consideration of ethical principles and processes used in biological research; • Utilising information and data available in scientific and medical literature, and identification of key data and essential factors from a large body of information; • Critical analysis of complex information, including statistical assessment of experimental data; • Ability to contribute to intellectual discussion in research; • Development of understanding of research concepts to generate new ideas for experiments; • Acquiring excellent oral and written communication skills.
Links to further information:	http://www.austinsurgery.unimelb.edu.au/
Notes:	<p>To be awarded Honours with a specialisation in Surgery (Austin/Northern Health), students must successfully complete the following:</p> <p>Semester 1 BIOM40001 Introduction to Biomedical Research (12.5 points) SURG40002 Advanced Studies in Biomedicine (12.5 points) SURG40005 Research Project (25 points)</p> <p>Semester 2 SURG40005 Research Project (50 points)</p>
Related Course(s):	Bachelor of Biomedicine (Degree with Honours) Bachelor of Science (Degree with Honours)