

526-305 Medical and Applied Immunology

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 36 lectures (three per week) Total Time Commitment: 120 hours
Prerequisites:	526-304 Principles of Immunology.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit.
Coordinator:	Dr A Brooks; Dr S Turner
Subject Overview:	<p>The subject provides an in-depth study of cell interactions in the immune response: natural and acquired immunity to bacteria, viruses and parasites; design of vaccines; immunodeficiency, including HIV/AIDS; immunopathology of infection; autoimmunity, its aetiology, pathogenesis and treatment; and current practice and future perspectives in transplantation and tumour immunology.</p> <p>By the end of the subject students should be able to understand and discuss:</p> <ul style="list-style-type: none"> # cell interactions in immunity as they relate to medical and applied aspects of immunology; # the mechanisms of natural and acquired immunity to bacteria, viruses and parasites, and mechanisms of evasion of these responses, and how this knowledge relates to vaccine design; # the problems of immunopathology and immunodeficiency in infection; # the aetiology, pathogenesis and treatment of autoimmunity; # the problems of transplantation and how they are overcome; and # the potential of immunotherapy and vaccines against cancer. <p>Students should have developed skills in analysing experimental evidence for immunological concepts.</p> <p>They should appreciate the experimental basis of our knowledge of the immune response and how this knowledge can be extrapolated to practical applications.</p>
Assessment:	A 1-hour written examination held mid-semester (20%); a 3-hour written examination in the examination period (80%).
Prescribed Texts:	Immunobiology (C A Janeway et al), 6th edn, 2004
Breadth Options:	<p>This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008.</p> <p>This subject or an equivalent will be available as breadth in the future.</p> <p>Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available.</p>

	2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.
Related Course(s):	Bachelor of Arts and Bachelor of Science Bachelor of Arts and Sciences Bachelor of Biomedical Science Bachelor of Science Graduate Diploma in Biotechnology