MIIM30003 Medical and Applied Immunology

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 36 lectures (three per week) Total Time Commitment: 120 hours
Prerequisites:	Students should have previously enrolled in:

Subject	Study Period Commencement:	Credit Points:
MIIM30002 Principles of Immunology	Semester 1	12.50

Corequisites:	None
Recommended Background Knowledge:	The prerequisite subjects should have provided an appropriate background for this subject.
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/
Coordinator:	Assoc Prof Andrew Brooks, Assoc Prof Stephen Turner
Contact:	Assoc Prof Andrew Brooks: **agbrooks@unimelb.edu.au (mailto:agbrooks@unimelb.edu.au)** Assoc Prof Stephen Turner: **sjturn@unimelb.edu.au (mailto:sjturn@unimelb.edu.au)** Administrative Coordinator: Ms Corliss Chan
Subject Overview:	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.
Objectives:	Upon completion of the subject students should be able to understand and discuss: # 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. Students should have developed skills in analysing experimental evidence for immunological concepts.

	They should appreciate the experimental basis of our knowledge of the immune response and how this knowledge can be extrapolated to practical applications.
Assessment:	A 1-hour written examination held mid-semester (20%); a 3-hour written examination in the examination period (80%).
Prescribed Texts:	“Janeway’s Immunobiology” (Murphy et al) 7th edn, 2008
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2010/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2010/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2010/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/B-MUS)** You should visit **learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html)** and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	On completion of this subject, students should have developed the following generic skills # the ability to interpret scientific literature and interpret data from electronic databases. # the capacity to integrate knowledge across disciplines. # the ability to comprehend a question, evaluate the relevant information and communicate an answer
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 Science Graduate Diploma in Biotechnology
Related Majors/Minors/ Specialisations:	Defence and Disease Immunology Microbiology, Infection & Immunology Microbiology, Infection and Immunology Microbiology, Infection and Immunology