MIIM30002 Principles of Immunology

Credit Points: 12.50

Level: 3 (Undergraduate)

Dates & Locations:

2010, Parkville

This subject commences in the following study period/s:
Semester 1, Parkville - Taught on campus.

Time Commitment: Contact Hours: 36 lectures (three a week) Total Time Commitment: 120 hours

Prerequisites:

B. Science students:

Subject	Study Period Commencement:	Credit Points:
MIIM20001 Principles of Microbiology & Immunology	Semester 1	12.50
MIIM20003 Experimental Microbiology	Semester 1, Semester 2	12.50

B. Biomedicine students (2009 on):

Subject	Study Period Commencement:	Credit Points:
BIOM20001 Molecular and Cellular Biomedicine	Semester 1	25
MIIM20002 Microbes, Infections and Responses	Semester 2	12.50

B. Biomed. Sci. students (pre 2009):

Subject	Study Period Commencement:	Credit Points:
MIIM20001 Principles of Microbiology & Immunology	Semester 1	12.50
MIIM20002 Microbes, Infections and Responses	Semester 2	12.50

Corequisites: None

Recommended Background Knowledge: The 200 level prerequisite subjects should have provided a solid background in Microbiology and Immunology. An understanding of the molecules, genes and biology of the cell is important.

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 will describe the development, function and regulation of cells of the immune system; immunoglobulins; cytokines; immunological mechanisms operating in immunity to infectious disease; autoimmunity; hypersensitivity; and transplantation and tumour immunology.
Objectives:	By the completion of the course the students should understand and be able to describe: # the development, function and regulation of cells of the immune system; # the relationship between structure and function of antibodies; # the molecular and cellular basis of T cell recognition; # the molecular and cellular basis of innate immune responses; # the basis of immune mechanisms underlying immunity to infection and autoimmune disease, hypersensitivity reactions, immunodeficiency diseases and transplant and tumour rejection.
Assessment:	A 1-hour written examination held mid-semester (20%);A 3-hour written examination in the examination period (80%).
Prescribed Texts:	Cellular and Molecular Immunology (A K Abbas and A H Lichtman.), 6th edn, 2007
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:	This subject is available to students enrolled in the: Pre-2008 B. Sc Pre-2008 B. Biomed. Sc. (Stream 7). NG B. Sc. NG B. Biomed 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:	Animal Cell Biology Biomedical Biotechnology Biotechnology Biotechnology Cell Biology Cell and Developmental Biology Defence and Disease Genetics Genetics Immunology Microbiology Microbiology, Infection & Immunology Microbiology, Infection and Immunology

	Microbiology, Infection and Immunology