MIIM30014 Viruses and Other Parasites

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: 3 x one hour lectures per week (total contact hours: 36) 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

All students should have also previously enrolled in:

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

Corequisites: None

Recommended Background Knowledge: The 200 and 300 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:

Non allowed subject:

Subject	Study Period Commencement:	Credit Points:
526-314 Medical Microbiology: Viruses	Not offered 2010	

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 Damian Purcell, Prof Lorena Brown

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Subject Overview:	This subject describes how viruses and other parasites interact with their hosts to cause infection. The subject will describe the strategies that different groups of viruses employ to replicate in their host cells, and the different outcomes possible for both the virus and the host cell. It will also describe how viruses may be transmitted and detected, and the ways that viruses can cause disease (pathogenesis). The various interactions of the virus and the host's immune system will also be discussed. These topics will be further illustrated by discussing the features of a range of medically important viruses. The subject will also describe other parasites of humans e.g. fungi, protozoan parasites and helminth parasites. It will describe the dynamic interactions that occur between these parasites, their human hosts and the environment and how the outcome of these interactions may vary when changes in any one of these occur. These topics will be further illustrated by discussing the features of a range of medically important parasites.
Objectives:	Upon completion of this course, students should be able to: # understand fundamental concepts of viral replication, pathogenesis and epidemiology # understand how the parasitic relationship of fungi, protozoan parasites and helminth parasites to their human hosts differs from that of viruses # apply relevant knowledge of replication, pathogenesis, immunity and epidemiology of these parasites to the determination of appropriate control strategies
Assessment:	A 1 hour written examination held mid-semester (20%).A 3 hour written examination held in the examination period (80%)
Prescribed Texts:	Principles of Virology, Flint SJ et al., 3nd Edn 2009 (two volumes)
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

Related Course(s):	Bachelor of Science
Related Majors/Minors/ Specialisations:	Animal Disease Biotechnology Defence and Disease Immunology Microbiology Microbiology, Infection & Immunology Microbiology, Infection and Immunology Microbiology, Infection and Immunology