

MIIM30004 Microbiology and Immunology (Optometry)

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2011, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 24 lectures and 12 hours of practical work/tutorials Total Time Commitment: 120 hours
Prerequisites:	The subject is only available to third year Bachelor of Optometry students who have completed the second year of the course.
Corequisites:	None
Recommended Background Knowledge:	The second year of the Bachelor of Optometry provides 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/
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Subject Overview:	The lecture and practical content covers 4 main areas: <ol style="list-style-type: none"> 1 immune defences against pathogens, and immunopathology, 2 ocular infections caused by bacteria, fungi and parasites, and their treatment, including the development of antimicrobial resistance, 3 ocular infections caused by viruses, and their treatment, 4 prevention of infection in the optometrist's practice. <p>Review lectures provide an overview of the preceding section, often in the form of illustrative case studies. Student participation is encouraged in all lectures.</p> <p>The practical classes illustrate principles of specimen collection and bacterial isolation, and principles of disinfection relevant to the practice of optometry.</p>
Objectives:	By the end of the subject students should have an appreciation of: <ul style="list-style-type: none"> # the range of infections of the eye that may be caused by bacteria, viruses, chlamydiae, fungi and protozoa; # how infections spread from person to person and may be transmitted by optometrists; # how infection is prevented in the optometrist's practice by appropriate aseptic technique and methods of sterilisation and disinfection; # the principles of antimicrobial chemotherapy; and # the principles of immunity and epidemiology.

Assessment:	A 1-hour written examination held mid-semester (20%); a 2-hour written examination in the examination period (80%).
Prescribed Texts:	None
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:	Completion of this subject is expected to provide students with the following skills: <ul style="list-style-type: none"># The ability to interpret scientific literature.# The capacity to integrate knowledge.# The ability to critically analyse scientific data.
Related Course(s):	Bachelor of Optometry