

VETS20004 Veterinary Microbiology & Virology

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 29 hours of lectures and 20.5 hours of practical classes and tutorials. Total Time Commitment: Estimated total time commitment 73.5 hours (minimum).
Prerequisites:	Nil
Corequisites:	Nil
Recommended Background Knowledge:	Nil
Non Allowed Subjects:	Nil
Core Participation Requirements:	Prospective students are advised to familiarise themselves with the Faculty's Academic Requirements Statement http://www.vet.unimelb.edu.au/docs/AcademicRequirements.pdf and information about Students Experiencing Disability http://www.vet.unimelb.edu.au/docs/Disability.pdf
Coordinator:	Assoc Prof James Gilkerson
Contact:	jrgilk@unimelb.edu.au
Subject Overview:	Topics include: general microbiology; immunity to microbial pathogens, virology and practical exercises in immunodiagnostics and veterinary virology.
Objectives:	At the end of the sequence Veterinary Microbiology & Virology and Veterinary Bacteriology & Mycology, students completing these subjects should: <ul style="list-style-type: none"> # possess the essential information on the important characteristics of bacteria, fungi and viruses and the way they exert their pathogenic effects and produce clinical signs of disease; # understand the distribution of microbes in nature and the manner by which those of veterinary importance are spread; # be familiar with the methods of disinfection and sterilisation and their use in practice; # understand the principles of anti-microbial therapy; # understand the need for rational judgments in the use of antimicrobial therapy; # understand the immune response infection and possible abnormalities of the responses; # understand the principles and use of vaccines in the control of infectious diseases; # be familiar with the methods of diagnosis of infectious diseases; # understand the principles of non-therapeutic control measures; understand approaches to the diagnosis of infectious disease (including the isolation and identification of pathogens and their detection using immunoassays).
Assessment:	One 2-hour written exam (55%) and a 1-hour practical exam (20%) both at the end of semester. Three short tests (each of 15 minutes) during the semester (15%) and indicated in the teaching timetable available at the commencement of the semester. A vaccination assignment and presentation (10%).
Prescribed Texts:	Nil
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:	<p>At the end of the sequence Veterinary Microbiology and Virology and Veterinary Bacteriology and Mycology students completing these subjects should have:</p> <ul style="list-style-type: none"># the skills required to be efficient managers of information;# the skills to apply technology to the analysis of biological problems; and# developed skills in report writing.
Related Course(s):	Bachelor of Veterinary Science(PV)