

VETS20004 Veterinary Microbiology & Virology

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 25 hours of lectures and workshops and 21 hours of practical classes. Total Time Commitment: 73.5 hours (minimum)
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	Prospective students are advised to familiarise themselves with the Faculty's Academic Requirements Statement: http://www.vet.unimelb.edu.au/docs/CoreParticipationReqs.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 immunodiagnosics 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:	Two 1-hour (short answer and multiple choice) tests (15% total) and a 1-hour practical quiz (15%) during the semester, as indicated in the teaching timetable available at the commencement of the semester (approximately weeks 6, 10 and 11 respectively). One 2-hour written exam (70%) at the end of semester. Students are required to pass the subject on aggregate mark.
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:

At the end of the sequence Veterinary Microbiology and Virology and Veterinary Bacteriology and Mycology students completing these subjects should have:

- # 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.