

## VETS20004 Veterinary Microbiology & Virology

<b>Credit Points:</b>	12.50
<b>Level:</b>	2 (Undergraduate)
<b>Dates &amp; Locations:</b>	2011, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 29 hours of lectures and 20.5 hours of practical classes and tutorials. Total Time Commitment: 73.5 hours (minimum)
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	Prospective students are advised to familiarise themselves with the Faculty's Academic Requirements Statement: <a href="http://www.vet.unimelb.edu.au/docs/CoreParticipationReqs.pdf">http://www.vet.unimelb.edu.au/docs/CoreParticipationReqs.pdf</a>
<b>Coordinator:</b>	Assoc Prof James Gilkerson
<b>Contact:</b>	<a href="mailto:jrgilk@unimelb.edu.au">jrgilk@unimelb.edu.au</a>
<b>Subject Overview:</b>	Topics include: general microbiology; immunity to microbial pathogens, virology and practical exercises in immunodiagnosics and veterinary virology.
<b>Objectives:</b>	At the end of the sequence Veterinary Microbiology & Virology and Veterinary Bacteriology & Mycology, students completing these subjects should: <ul style="list-style-type: none"> <li># 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;</li> <li># understand the distribution of microbes in nature and the manner by which those of veterinary importance are spread;</li> <li># be familiar with the methods of disinfection and sterilisation and their use in practice;</li> <li># understand the principles of anti-microbial therapy;</li> <li># understand the need for rational judgments in the use of antimicrobial therapy;</li> <li># understand the immune response infection and possible abnormalities of the responses;</li> <li># understand the principles and use of vaccines in the control of infectious diseases;</li> <li># be familiar with the methods of diagnosis of infectious diseases;</li> <li># 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).</li> </ul>
<b>Assessment:</b>	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.
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>

<b>Generic Skills:</b>	At the end of the sequence Veterinary Microbiology and Virology and Veterinary Bacteriology and Mycology students completing these subjects should have: <ul style="list-style-type: none"><li># the skills required to be efficient managers of information;</li><li># the skills to apply technology to the analysis of biological problems; and</li><li># developed skills in report writing.</li></ul>
<b>Related Course(s):</b>	Bachelor of Veterinary Science(PV)