

VETS70010 Production Animal Medicine and Surgery

Credit Points:	37.50											
Level:	7 (Graduate/Postgraduate)											
Dates & Locations:	This subject is not offered in 2014. This core subject in DVM3 is delivered across 2 x 14 week semesters. This subject commences in February and concludes in mid-November.											
Time Commitment:	Contact Hours: 315 hours Total Time Commitment: 432 hours											
Prerequisites:	Passes in all subjects in Year 2 of the Doctor of Veterinary Medicine (i.e. DVM2)											
Corequisites:	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>VETS70007 Principles of Professional Practice</td> <td>Year Long</td> <td>25</td> </tr> <tr> <td>VETS70011 Companion Animal Medicine and Surgery</td> <td>Year Long</td> <td>37.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	VETS70007 Principles of Professional Practice	Year Long	25	VETS70011 Companion Animal Medicine and Surgery	Year Long	37.50
Subject	Study Period Commencement:	Credit Points:										
VETS70007 Principles of Professional Practice	Year Long	25										
VETS70011 Companion Animal Medicine and Surgery	Year Long	37.50										
Recommended Background Knowledge:	A sound understanding of Veterinary Bioscience, infectious agents as causes of disease in domestic animals, and the major animal production systems.											
Non Allowed Subjects:	None											
Core Participation Requirements:	Students should refer to the Core Participation Requirements statement for the Doctor of Veterinary Medicine: http://www.vet.unimelb.edu.au/docs/CoreParticipationReqs.pdf											
Contact:	Email: a.campbell@unimelb.edu.au (mailto:a.campbell@unimelb.edu.au)											
Subject Overview:	<p>This subject is comprised of the following four modules.</p> <p>Cattle</p> <ul style="list-style-type: none"> # Physical examination of cattle # Diseases of the alimentary, respiratory, musculoskeletal, haematopoietic, lymphoreticular, urinary, nervous and cardiovascular systems and skin of cattle # Diseases of calves # Diseases of cattle in northern Australia # Diseases of cattle that manifest as poor growth or wasting # Disease of cattle that manifest as lameness # Disease of cattle that manifest as sudden death # Diseases of cattle in which recumbency is a primary sign # Exotic diseases of cattle # Zoonotic diseases of cattle # Mastitis, milk quality and conditions of the udder and teats of cattle # Management of reproduction and reproductive diseases of cattle # Diseases and management of feedlot cattle # Diarrhoea in adult cattle <p>Small Ruminants</p> <ul style="list-style-type: none"> # Physical examination of sheep, goats, deer and camelids # Production of small ruminants # Diseases, diagnosis, treatment and preventative medicine of sheep, goats, deer and camelids <p>Pigs and Aquaculture</p> <ul style="list-style-type: none"> # Physical examination of pigs and fish # Pig production 											

- # Husbandry and nutrition of fish
- # Breeding herd management
- # Farrowing house management
- # Weaner/grower/finisher management
- # Diseases, diagnosis, treatment and preventative medicine of pigs.
- # Diseases, diagnosis, pathogenesis, epizootiology, treatment and preventative medicine of fish

Poultry and Aviary Birds

- # Physical examination of poultry and aviary birds
- # Husbandry and nutrition of poultry and aviary birds
- # Diseases, diagnosis, pathogenesis, epizootiology, treatment and preventative medicine of poultry and aviary birds

Learning Outcomes:

Students completing the **Cattle** module should be able to:

- # collect a history and epidemiological information of relevance to an individual diseased cow or herd
- # perform a thorough clinical examination of all body systems of a cow
- # suggest a reasonable diagnosis and differential diagnoses from the history, epidemiology, clinical signs and lesions observed in an individual cow, calf or bull, or a herd of cattle
- # recommend appropriate ancillary laboratory tests, submit a detailed request for a laboratory examination, and interpret the results of the laboratory reports
- # ascertain if the welfare of a cow or herd is being compromised
- # specify appropriate therapy or other course of action
- # provide the owner with a prognosis
- # advise the owner of the appropriate withholding periods for milk or of the animal from slaughter when antibiotics, drugs or chemicals are administered or applied
- # explain to the owner the economic costs of the disease
- # recommend measures to control a disease in a cow herd or other population
- # recommend measures to prevent a disease from occurring
- # prepare a written report for the owner or attendant, or a referring veterinarian
- # demonstrate competence in the analysis of records of production, health and reproductive performance of cattle herds
- # present clinical case material in a professional manner.

Students completing the **Small Ruminants** module should be able to:

- # ascertain if the welfare of sheep, goats, deer or camelids is compromised
- # perform a thorough physical examination of a sheep, goat, deer and camelid
- # suggest a list of differential diagnoses, in descending order of probability, from the history, epidemiology, clinical signs and/or lesions observed in individual sheep, goats, deer or camelids, or in flocks of these animals
- # submit appropriate samples for laboratory testing and interpret the test results for diseases and production limiting conditions that affect sheep, goats, deer and camelids
- # demonstrate competence in the analysis of farm financial performance and of animal health and production records
- # design a prevention program for diseases and production limiting conditions that commonly affect sheep, goats, deer and camelids
- # develop a disease control program that includes a realistic prognosis, treatment advice, consideration of chemical residues, and for commercial flocks an economic appraisal of the proposed program.

Students completing the **Pigs and Aquaculture** module should:

- # be aware of the management and welfare issues associated with the keeping of pigs and fish
- # be able to perform a thorough physical examination of a pig
- # be aware of the variety of diseases affecting pigs and fish
- # understand the factors influencing outbreaks of disease in pig herds and/or individual animals, and fish
- # be able to suggest a probable diagnosis/differential diagnosis from the history, epidemiology, clinical signs and gross post-mortem lesions

	<ul style="list-style-type: none"> # be able to recommend appropriate ancillary tests to facilitate a definitive diagnosis and prognosis # be able to specify appropriate therapy or other course of action for treating affected pig herds and/or individual pigs, and fish # be able to recommend appropriate measures for disease control and/or prevention in pigs, and fish # know the statutory regulations applicable to the husbandry, welfare, disease control and use of therapeutic substances/vaccines in pigs and fish # be aware of the major factors affecting the productivity and profitability of pig farms and aquaculture enterprises # be aware of new issues facing the pig industry locally, nationally and internationally that are likely to affect the way pigs are produced in Australia. <p>Students completing the Poultry and Aviary Birds module should:</p> <ul style="list-style-type: none"> # be aware of the management and welfare issues associated with the keeping of poultry and aviary birds # be able to perform a thorough physical examination of a chicken or other bird species # be aware of the variety of diseases affecting poultry and aviary birds # understand the factors influencing outbreaks of disease in flocks and/or individual birds, # be able to suggest a probable diagnosis/ differential diagnosis from the history, epidemiology, clinical signs and gross post-mortem lesions # be able to recommend appropriate ancillary tests to facilitate a definitive diagnosis and prognosis # be able to specify appropriate therapy or other course of action for affected flocks and/or individual birds # be able to recommend appropriate measures for disease control and/or prevention in flocks of birds # know the statutory regulations applicable to the husbandry, welfare, disease control and use of therapeutic substances/vaccines in poultry
Assessment:	<p>This assessment will be based on the following four modules, of which satisfactory completion of each is a hurdle requirement for the successful completion of this subject. Cattle module (50% of total subject assessment) Small ruminants module (30% of total subject assessment) Pigs module (10% of total subject assessment) Poultry, aviary birds and aquaculture module (10% of total subject assessment) Cattle module A 2-hour written examination held at the end of semester 1 (40% of this module) A 2-hour written examination held at the end of semester 2 (45% of this module) A 1-hour written examination based on practical class material held during semester 2 (15% of this module) Hurdle requirement: Successful completion of a cattle practical examination held before the intra-semester break in semester 2. Students are required to achieve an aggregate mark of at least 50% across the assessment components of this module. Small Ruminants module One 1000 word assignment due in the week following the intra-semester break in semester 1 (15% of this module) A 2-hour written examination held at the end of semester 1 (40% of this module) A 2-hour written examination held at the end of semester 2 (45% of this module) Students are required to achieve an aggregate mark of at least 50% across the assessment components of this module, including satisfactory completion of the assignment. Pigs and Aquaculture module A group presentation during semester 1(10% of this module) A 2-hour written examination held at the end of semester 1 (90% of this module) Attendance at practical classes and group presentations is compulsory and a hurdle requirement for this module. Poultry and Aviary Birds module One 10-minute oral practical examination held during semester 2 (20% of this module) A 2-hour written examination at the end of semester 2 (80% of this module) The passing of the oral practical exam is a hurdle requirement for this module.</p>
Prescribed Texts:	None
Recommended Texts:	A recommended reading list will be provided by the subject coordinator.
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>Students completing this subject will have developed:</p> <ul style="list-style-type: none"> # an in-depth understanding of specific veterinary clinical disciplines

	<ul style="list-style-type: none"># manual dexterity and technical skills in the practical application of these disciplines# the ability to apply theoretical knowledge in a practical setting, to trouble-shoot technical difficulties# and to seek accurate solutions to complex biological problems# the capacity to apply a rigorous, critical and logical approach to problem-solving# advanced experience in observation, interpretation of complex data, problem-solving, time management, record-keeping and communication in both written and verbal formats
Related Course(s):	Doctor of Veterinary Medicine