VETS70010 Production Animal Medicine and Surgery

Credit Points:	37.5
Level:	7 (Graduate/Postgraduate)
Dates & Locations:	2016, This subject commences in the following study period/s: Year Long, - Taught on campus. This core subject in DVM3 is delivered across two 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:	

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:	Refer to the Core Participation Requirements statement within the course entry for the Doctor of Veterinary Medicine: https://handbook.unimelb.edu.au/view/current/MC-DVETMED
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Subject Overview:	This subject is comprised of the following four modules: **Cattle** # 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 **Small Ruminants** # Physical examination of sheep, goats, deer and camelids # Production of small ruminants

	# Diseases, diagnosis, treatment and preventative medicine of sheep, goats, deer and camelids **Pigs and Aquaculture** # 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 # 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 Students completing the **Poultry and Aviary Birds** module should: # 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:	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 and aquaculture module (10% of total subject assessment) Poultry and aviary birds module (10% of total subject assessment) Cattle module A two-hour written examination held at the end of Semester 1 (40% of this module) A two-hour written examination held at the end of Semester 2 (45% of this module) A one-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 last week of Semester 1 (15% of this module) A two-hour written examination held at the end of Semester 1 (40% of this module) A two-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 on Pigs during Semester 1 (10% of this module) A two-hour written examination held at the end of Semester 1 (90% of this module) Attendance at all 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 two-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.
Prescribed Texts:	None
Recommended Texts:	A recommended reading list will be provided for each group of lecture topics within the species modules.

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:	Students completing this subject will have developed: # An in-depth understanding of specific veterinary clinical disciplines # 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