

VETS30001 Animal Health, Management & Welfare 3

Credit Points:	6.25
Level:	3 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 42 hours of lectures and 24 hours of practical work. Total Time Commitment: Estimated total time commitment 94 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 Andrew Vizard
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Subject Overview:	Topics include epidemiology, economics, genetics, pasture management and fish farming. Epidemiology includes factors that influence patterns of disease; techniques of data acquisition and analysis, and the uses and limitations of statistical information; and epidemiological investigations of animal disease outbreaks. Economics includes economic reasoning in decision-making with animal production systems; preparing a farm budget, financial analytical methods that aid business financial decision-making including gross margins, enterprise analysis, cash flow budgets, partial budgets and comparative analysis (benchmarking). Genetics includes understanding the principles of selection for genetic improvement in various animal production systems; and the use of reproductive technologies to improve the rate of genetic gain. Pasture management includes understanding the importance of pastures in profitable grazing systems; strategies to upgrade pasture production and pasture quality; and planning and implementing grazing management strategies. Fish farming includes the basics of intensive fish farming.
Objectives:	Students completing this subject should: <ul style="list-style-type: none"> # understand the concepts of epidemiology; # be aware of factors which influence patterns of disease; # be familiar with the techniques of data acquisition and analysis and the uses and limitations of statistical information; # be able to undertake epidemiological investigations of animal disease outbreaks; be able to provide economic reasoning in decision making when dealing with animal production systems; # be able to prepare a budget, for a proposed change to a business; # understand various financial analytical methods that aid business financial decision-making including gross margins, cash flow budgets, partial budgets and comparative analysis (bench-marking); # be able to design a simple breeding program for animals; # understand the principles of selection for genetic improvement in various animal production systems; # be able to advise on the use of reproductive technologies to improve the rate of genetic gain; # understand the importance of pastures in profitable grazing systems;

	<ul style="list-style-type: none"> # be aware of strategies to upgrade pasture production and pasture quality; # be competent at planning and implementing grazing management strategies; # understand the basics of intensive fish farming; # further develop computer skills and skills in integrating material from previous subjects.
Assessment:	A 2-hour written examination at the end of semester (90%) and assessment of practical exercises (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>Students completing this subject should:</p> <ul style="list-style-type: none"> # be familiar with the techniques of data acquisition and analysis and the uses and limitations of statistical information; # be able to critically analyse scientific papers and reports; # have skills in writing a scientific paper or report; # be competent in objective and systematic approaches to decision making; and # have increased ability to integrate and apply knowledge from a wide range of disciplines.
Related Course(s):	Bachelor of Veterinary Science(PV)