



CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic data					
Module title	Principles of Livestock Production				
Module code	UINXP5-15-1	Level	1	Version	2
Owning faculty	Hartpury College	Field	Animal and Land Science		
Contributes towards	FdA Agricultural Business Management FdSc Agriculture				
UWE credit rating	15	ECTS credit rating	7.5	Module type	Standard
Pre-requisites	None		Co-requisites	None	
Excluded combinations	None		Module entry requirements	None	
Valid from	01 September 2014		Valid to	01 September 2020	

CAP approval date	27 January 2014
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Part 2: Learning and teaching	
Learning outcomes	<p>On successful completion of this module students will be able to:</p> <ol style="list-style-type: none"> 1 Describe and compare the anatomy and physiology of the main body systems of a range of animals (A, B). 2 Identify common diseases of livestock animals and describe the symptoms of named notifiable diseases, and measures that must be taken in the event of an outbreak (A, B). 3 Describe reproductive strategies, and outline the mode of inheritance in animals (A). 4 Identify the chemical constituents of foods and the composition of feedstuffs (A). 5 Discuss the interaction between an animal's behaviour and its environment (A). 6 Identify and discuss the timing for carrying out livestock tasks to industry standard (A, B).
Syllabus outline	<ol style="list-style-type: none"> 1 Anatomy and physiology of the main body systems of a range of animals: relation of scientific principles to the practice of animal husbandry; identification of areas prone to stress, disease or injury. 2 The importance of carbohydrate, protein, lipid, water, minerals and vitamins in good livestock nutrition; the basic components of a feedstuff. 3 Common diseases of livestock animals and their vectors: identification of the healthy animal; recognition of common diseases; assessment of the need for veterinary assistance; description and evaluation of common prophylaxis; notifiable diseases; zoonosis; veterinary terminology; causal agents; environmental factors; principles of vaccination and immunity; factors influencing animal health; importance of good animal husbandry. 4 Reproductive strategies, anatomy, and the basis for inheritance in animals: reproductive anatomy and behaviour; appraisal of breeding problems; inbreeding, line breeding, crossbreeding and hybrid vigour.

	<p>5 The interaction between an animal's behaviour and its environment: observation and evaluation of normal, abnormal, aggressive and sexual behaviour;</p> <p>6 Application of knowledge to on-farm practice through a short work placement carrying out farm duties.</p>												
Contact hours	<p>Indicative delivery modes:</p> <table> <tr> <td>Lectures, guided learning, seminars etc</td> <td>33</td> </tr> <tr> <td>Self directed study</td> <td>3</td> </tr> <tr> <td>Independent learning, including work placement</td> <td>114</td> </tr> <tr> <td>TOTAL HOURS</td> <td>150</td> </tr> </table>	Lectures, guided learning, seminars etc	33	Self directed study	3	Independent learning, including work placement	114	TOTAL HOURS	150				
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Teaching and learning methods	<p>A variety of learning strategies will be used which may include lectures, tutorials, seminars, practicals, self-directed learning, and e-learning.</p> <p>Scheduled learning May include classroom lectures to inform the theory of the syllabus and laboratory sessions will be used to illustrate the theory, namely with dissection of organs to study the anatomy and physiology and with observation and count of parasite eggs in faeces to support the theory of parasitology. Farm visits will be used to illustrate aspects of nutrition, welfare and husbandry in farm animals.</p> <p>Independent learning Is expected to take place to build up the knowledge based in the information conveyed during the contact time. The students will produce an assignment and will spend 6 extra hours to prepare the exam.</p> <p>Placement learning A farm duties week will be organised during the study week to enable students a direct experience with farm animal husbandry.</p> <p>Virtual learning environment (VLE) or equivalent This specification is supported by a VLE where students will be able to find all necessary module information. Direct links to information sources will also be provided from within the VLE.</p>												
Key information sets information	<p>Key information sets (KIS) are produced at programme level for all programmes that this module contributes to, which a requirement is set by HESA/HEFCE. KIS are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.</p> <p>Key information set – module data</p> <table> <tr> <td>Number of credits for this module</td> <td style="border: 1px solid black; text-align: center;">15</td> </tr> </table> <table border="1"> <thead> <tr> <th>Hours to be allocated</th> <th>Scheduled learning and teaching study hours</th> <th>Independent study hours</th> <th>Placement study hours</th> <th>Allocated Hours</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">150</td> <td style="text-align: center;">36</td> <td style="text-align: center;">84</td> <td style="text-align: center;">30</td> <td style="text-align: center;">150</td> </tr> </tbody> </table> <p>The table below indicates as a percentage the total assessment of the module which constitutes a:</p> <ol style="list-style-type: none"> <i>Written exam:</i> Unseen written exam, open book written exam, in-class test. <i>Coursework:</i> Written assignment or essay, report, dissertation, portfolio, project. <i>Practical exam:</i> Oral assessment and/or presentation, practical skills assessment, practical exam. 	Number of credits for this module	15	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	150	36	84	30	150
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	<p>Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the assessment section of this module description:</p> <p>Total assessment of the module:</p> <table border="1" data-bbox="927 344 1058 483"> <tr> <td>Written exam assessment percentage</td> <td>25%</td> </tr> <tr> <td>Coursework assessment percentage</td> <td>50%</td> </tr> <tr> <td>Practical exam assessment percentage</td> <td>25%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table>	Written exam assessment percentage	25%	Coursework assessment percentage	50%	Practical exam assessment percentage	25%		100%
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Practical exam assessment percentage	25%								
	100%								
Reading strategy	<p>Essential reading Any essential reading will be indicated clearly, along with the method for accessing it, e.g. students may be expected to purchase a set text, be given a study pack, or be referred to texts that are available electronically, etc. This guidance will be available in the module handbook.</p> <p>Further reading Further reading is not essential for this module, but students will be encouraged to explore at least one of the titles held in the library on this topic. A current list of such titles will be given in the module handbook and revised annually.</p> <p>Access and skills Formal opportunities for students to develop their library and information skills are provided within the induction period and study skills sessions. Additional support is available through online resources. This includes interactive tutorials on finding books and journals, evaluation information and referencing. Sign up workshops are also offered.</p>								
Indicative reading list	<p>The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. However, as indicated above, CURRENT advice on readings will be available via other more frequently updated mechanisms, including the module guide.</p> <ul style="list-style-type: none"> • Blowey, R.W. (Current Edition) <i>A veterinary book for dairy farmers</i>. Ipswich: Farming Press. • Damron, W. S. (Current Edition) <i>Introduction to Animal Science</i>. New Jersey: Pearson Prentice-Hall. • Field, T. (Current Edition) <i>Beef production and management decisions</i>. New Jersey: Pearson, Prentice Hall. • Frandson, R.D., Wilke, W.L. & Fails, A.D. (Current Edition) <i>Anatomy and physiology of farm animals</i>. Lippincott Williams & Wilkins. • Fraser, A. F. and Broom, D. M. (Current Edition) <i>Farm animal behaviour and welfare</i>. Wallingford: Cab International. • Fuller, R. (Current Edition) <i>Suckler calf production</i>. Lincoln: Chalcombe publications. • Gillespie, J. (Current Edition) <i>Modern Livestock & Poultry Production</i>. New York: Thompson Delmar Learning. • Holden, P., Ensminger, M. (Current Edition) <i>Swine production</i>. New Jersey: Pearson, Prentice Hall. • McDonald, P. (Current Edition) <i>Animal nutrition</i>. Longman Scientific & Technical. • Pond, W. and Pond, K. (Current Edition) <i>Introduction to Animal Science</i>. New York: John Wiley & Sons. • Reece, W.O. (Current Edition) <i>Physiology of domestic animals</i>. Baltimore: Williams & Wilkins. • Rose, S. (Current Edition) <i>Principles of poultry science</i>. Oxford: CAB International. • Ruckebusch, Y., Phaneuf, L-P. & Dunlop, R. (Current Edition) <i>Physiology of small and large animals</i>. Philadelphia: BC Decker Inc. • Scanes, C., Brant, G. Ensminger, M. (Current Edition) <i>Poultry Science</i>. New Jersey: Pearson, Prentice Hall. 								

	<ul style="list-style-type: none"> • Sharpiro, L.S. (Current Edition) <i>Introduction to animal science</i>. NJ: Prentice Hall. • Taylor, R.E. (Current Edition) <i>Scientific farm animal production: an introduction to animal science</i>. New Jersey: Pearson Prentice Hall • Tyler, H. and Ensminger, M. (Current Edition) <i>Dairy Cattle Science</i>. New Jersey: Pearson, Prentice Hall. • Webster, J. (Current Edition) <i>Understanding the dairy cow</i>. Oxford: Blackwell Scientific.
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Part 3: Assessment			
Assessment Strategy	<p>An MCQ examination is used to test under controlled conditions, the knowledge of the student in all the syllabus theoretical contents.</p> <p>The practical aspects of this module will be evaluated both by an assignment and a report of attendance to the farm duties. The assignment will include a review of a topic considered during the anatomy laboratory sessions, and the student is required to produce a literature review on the anatomy and physiology of a body system; particularly on how a named disease affects the system and which biosecurity measures and protocols can be used in prevention and treatment.</p> <p>Formative assessment will be provided through questions and answers through lectures, on assignment drafts and through generic feedback posted through the VLE.</p> <p>In line with the College's commitment to facilitating equal opportunities, a student may apply for alternative means of assessment if appropriate. Each application will be considered on an individual basis taking into account learning and assessment needs. For further information regarding this please refer to the VLE.</p>		
Identify final assessment component and element	MCQ Examination.		
% weighting between components A and B (Standard modules only)		A:	B:
		25%	75%
First Sit			
Component A (controlled conditions)		Element weighting	
Description of each element			
1	MCQ Examination (30 minutes)	100%	
Component B		Element weighting	
Description of each element			
1	Assignment (1,250 words)	66.6%	
2	Farm duties attendance/engagement report	33.4%	
Resit (further attendance at taught classes is not required)			
Component A (controlled conditions)		Element weighting	
Description of each element			
1	MCQ Examination (30 minutes)	100%	
Component B		Element weighting	
Description of each element			
1	Assignment (1,250 words)	66.6%	
2	Farm duties attendance/engagement report	33.4%	
If a student is permitted an EXCEPTIONAL RETAKE of the module the assessment will be that indicated by the Module Description at the time that retake commences.			