



CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data					
Module Title	Dairy Herd Management				
Module Code	UILXSV-15-2	Level	2	Version	1
Owning Faculty	Hartpury	Field	Animal and Land Science		
Contributes towards	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 Analyse the dairy industry at a global and national level (A). 2 Explain the lactation curve and its importance on the breeding cycle of the cow and the implications on the annual milk production for a dairy business (A, B). 3 Formulate and justify a dairy ration to meet the requirements of a dairy cow at a particular stage of lactation and to alter milk quality (B). 4 Evaluate dairy sires and replacement policies (A). 5 Discuss how herd health issues impact on the welfare and the productivity of the animal (A, B). 6 Describe the selection of milking parlor, its maintenance and milking procedure to meet the necessary hygienic food standards (B).
Syllabus Outline	<ol style="list-style-type: none"> 1 Size of the dairy industry relative to the food industry. Current structure and markets of the UK dairy industry in comparison to the EU and globally. 2 Lactation curves in relation to cow yield, calving season including butterfat and protein curves. Dry matter intake responses and change in BCS curves explained using the lactation curve and physiological aspects. 3 Dairy feeding systems tied in with dairy nutrition. Ration formulation accounting for available forages, straights, stage of lactation and nutrient requirements. Nutritional altering of milk fat and protein in order to either meet the milk contract requirements or gain maximum milk price. 4 Dairy sires studied to contextualised breeding traits and productivity gains. Longevity of cows in relation to breeding identified using latest breeding indexes and the factors attributing towards it (SCC, fertility, calving ease, udder and leg confirmation).

	<p>5 Recognition of how lameness, fertility, mastitis and metabolic diseases impacts on a dairy businesses performance. Herd health plans, vaccination programmes, nutritional influences, parlour design/maintenance, milking procedure and other pro-active management procedures investigated in the mitigation of poor herd health.</p> <p>6 Dairy herd systems including grazing, continuously housed, TMR and concentrates in-parlour and outside parlour feeders contrasted and the resulting breeding, production and milk quality goals identified.</p> <p>7 Dairy costings fully explained and used to inform dairy unit management decisions.</p>															
Contact Hours	<p>Indicative delivery modes:</p> <table border="0" style="width: 100%;"> <tr> <td>Lectures, guided learning, seminars</td> <td style="text-align: right;">33</td> </tr> <tr> <td>Self-directed study</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Independent study</td> <td style="text-align: right;">114</td> </tr> <tr> <td>TOTAL HOURS</td> <td style="text-align: right;">150</td> </tr> </table>	Lectures, guided learning, seminars	33	Self-directed study	3	Independent study	114	TOTAL HOURS	150							
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Teaching and Learning Methods	<p>A variety of learning strategies will be used including lectures, seminars, on-farm and computer workshops and self-directed learning. Students will also be expected to engage in independent learning throughout the module and time to complete assessment work.</p> <p>Scheduled learning May include lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; external visits; work based learning; supervised time in studio/workshop.</p> <p>Independent learning May include hours engaged with essential reading, case study and/or seminar preparation, assignment preparation and completion etc.</p> <p>Virtual learning environment (VLE) (or equivalent) This module 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 (or equivalent).</p>															
Key Information Sets Information	<p>Key Information Sets (KIS) are produced at programme level for all programmes that this module contributes to, which is a requirement 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 border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4">Number of credits for this module</td> <td style="text-align: center; border: 1px solid black;">15</td> </tr> <tr> <th style="width: 15%;">Hours to be allocated</th> <th style="width: 25%;">Scheduled learning and teaching study hours</th> <th style="width: 25%;">Independent study hours</th> <th style="width: 20%;">Placement study hours</th> <th style="width: 15%;">Allocated Hours</th> </tr> <tr> <td style="text-align: center;">150</td> <td style="text-align: center;">36</td> <td style="text-align: center;">114</td> <td style="text-align: center;">0</td> <td style="text-align: center;">150</td> </tr> </table> <p>The table below indicates as a percentage the total assessment of the module which constitutes:</p> <p>1 <i>Written Exam</i>: Unseen written exam, open book written exam, in-class test. 2 <i>Coursework</i>: Written assignment or essay, report, dissertation, portfolio, project. 3 <i>Practical Exam</i>: Oral Assessment and/or presentation, practical skills assessment, practical exam.</p>	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	114	0	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="932 344 1059 483"> <tr> <td>Written exam assessment percentage</td> <td>50%</td> </tr> <tr> <td>Coursework assessment percentage</td> <td>50%</td> </tr> <tr> <td>Practical exam assessment percentage</td> <td>0%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table>	Written exam assessment percentage	50%	Coursework assessment percentage	50%	Practical exam assessment percentage	0%		100%
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	100%								
Reading Strategy	<p>Core readings Any essential reading will be indicated clearly, along with the method for accessing it, e.g. students may be required to purchase a set text, be given a print study pack or be referred to texts that are available electronically or in the Library. Module guides will also reflect the range of reading to be carried out.</p> <p>Further readings Further reading will be required to supplement the set text and other printed readings. Students are expected to identify all other reading relevant to their chosen topic for themselves. They will be required to read widely using the library search, a variety of bibliographic and full text databases, and Internet resources. Many resources can be accessed remotely. The purpose of this further reading is to ensure students are familiar with current research, classic works and material specific to their interests from the academic literature.</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. • Blowey, R.W. (Current Edition) <i>Cattle Lameness and Hoofcare</i>. Ipswich: Old Pond Publishing. • Blowey, R and Edmondson, P. (Current Edition) <i>Mastitis Control in Dairy Herds</i>. Wallingford: CABI. • Charlton, S.J. (Current Edition) <i>Calf Rearing Guide</i>. Ashby-De-La-Zouch: Context Products. • Cherney (Current Edition) <i>Grass for dairy cattle</i>. Wallingford: CABI. • Fraser, A. F. and Broom, D. M. (Current Edition) <i>Farm animal behaviour and welfare</i>. Wallingford: CABI. • Green, M. (Current Edition) <i>Dairy Herd Health</i>. Wallingford: CABI • Hill, J. and Andrews A. H. (Current Edition) <i>The expectant dairy cow</i>. Lincoln: Chalcombe. • Hulsan, J. (Current Edition) <i>Cow signals: A practical guide for dairy farm management</i>. Netherlands: Roodbont Uitgeverij. • Kebreab, E., Mills, J.A.N. and Beever D.E. (Current Edition) <i>Dairying: using science to meet consumers' needs</i>. Nottingham: Nottingham University Press. • McDonald, P. (Current Edition) <i>Animal nutrition</i>. Harlow: Longman Scientific & Technical. • Russell, E.M. (Current Edition) <i>Dairy Cows: Nutrition, Fertility & Milk Production (Animal Science, Issues and Professions - Agriculture Issues and Policies)</i>. New York: Nova Science Publishers. 								

	<ul style="list-style-type: none"> • Tyler, H. and Ensminger, M. (Current Edition) <i>Dairy Cattle Science</i>. New Jersey: Pearson. • Webster, J. (Current Edition) <i>Understanding the dairy cow</i>. Oxford: Blackwell Scientific. <p>Journals:</p> <ul style="list-style-type: none"> • Journal of Dairy Science. <p>Websites and databases:</p> <ul style="list-style-type: none"> • DairyCo website: www.dairyco.org.uk • Hoard's Dairyman - The U.S. Dairy Farm Magazine: www.hoards.com • Kingshay Farming Notes: Hartpury LRC • Northern Ireland Farmer Funded Research: www.agrisearch.org <p><i>The above sources give an indication of the area of study involved. Although students may be directed to some specific titles, they will also be encouraged to identify other relevant material for themselves.</i></p>
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Part 3: Assessment			
Assessment Strategy	<p>The written examination has been chosen so to facilitate broad assessment of the knowledge and understanding; and the intellectual skills gained throughout the module in a time-limited and controlled setting.</p> <p>The written report assignment is chosen to facilitate in depth utilisation of skills and understanding gained from farm visits and seminars; and relating this to material learnt in lectures and in additional study via analysis, evaluation and discussion.</p> <p>Feedback will be provided throughout the module via tutorial support; class and on farm discussions and short exercises in addition to that on assignment submissions and examination scripts.</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 leaning and assessment needs. For further information regarding this please refer to the VLE.</p>		
Identify final assessment component and element	Written examination.		
% weighting between components A and B (Standard modules only)	A:	B:	
	50%	50%	
First Sit			
Component A (controlled conditions)	Element weighting		
Description of each element			
1 Written examination (1 hour)	100%		
Component B	Element weighting		
Description of each element			
1 Written report (1,250 words)	100%		
Resit (further attendance at taught classes is not required)			
Component A (controlled conditions)	Element weighting		
Description of each element			
1 Written examination (1 hour)	100%		
Component B	Element weighting		
Description of each element			
1 Written assignment (1,250 words)	100%		
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.			