

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Animal and Equine Nutrition					
Module Code	UINXQ9-15-1		Level	1	Version 1	
Owning Faculty	Hartpury		Field	Animal and Land Sciences		
Contributes towards	FdSc Animal Management FdSc Equine Management					
UWE Credit Rating	15	ECTS Credit Rating	7.5	Module Type	Standard	
Pre-requisites	None		Co-requisites	None		
Excluded Combinations			Module Entry requirements	None		
Valid From	01 September 2013		Valid to	01 September 2019		

Part 2: Learning and Teaching				
Learning Outcomes	On successful completion of this module students will be able to:			
	 Compare the anatomy and physiology of the gastrointestinal tracts of named mammals (A, B). Identify the physiological mechanisms involved in digestion and relate this to the management of a range of mammals (A, B). Explain the basic biochemistry of the six constituents of foods, and evaluate their 			
	 importance in animal nutrition (A). Demonstrate an ability to formulate rations for a range of mammalian species (A, B). Describe the theory of proximate analysis and the techniques needed to apply it 			
	 (A). Demonstrate an awareness of the importance of nutritional analysis of foodstuffs and the practical skills involved (A, B). 			
Syllabus Outline	 Study of the anatomy and physiology of the gastrointestinal tract of a range of mammals (to include herbivores, omnivores and carnivores). Digestion, absorption, synthesis and fate of carbohydrates, proteins, fats/lipids, water, minerals and vitamins necessary in the nutrition of mammals. The techniques used for proximate analysis of foods. Importance of digestive trials and their relationship with the energy requirement for specific mammalian species. Ration formulations for a range of mammals. Types of grasses and forages available as foodstuffs; forage conservation and their impact on the nutritional status of mammals; importance of grassland management in herbivorous mammal diets. 			

Contact Hours	Indicative delivery	modes:				
	Lectures, guided		s etc	33		
	Self directed stud Independent learr			3 114		
	TOTAL			150		
Teaching and Learning Methods	A variety of learning strategies will be used including lectures, practicals and seminars (33 hours) and self-directed learning (3 hours). Students will also be expected to engage in independent learning throughout the module (114 hours) including time to complete assessment work.					
	Scheduled learning Includes lectures, laboratory practicals, tutorials; work based learning and supervised time in the laboratory					
	<i>Independent learning</i> Includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below. Scheduled sessions may vary slightly depending on the module choices you make.					
	This specification		É where students		ind all necessary rovided from within	
Key Information Sets Information	Key Information Sets (KIS) are produced at programme level for all programmes that t module contributes to, which is a requirement set by HESA/HEFCE. KIS are compare sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.					
	Key Information Set - Module data					
	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	
	The table below indicates as a percentage the total assessment of the module which constitutes a:					
	 Written Exam: Unseen written exam, open book written exam, in-class test. Coursework: Written assignment or essay, report, dissertation, portfolio, project. Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam. 					
	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:					
	Total assessment of the module:Written exam assessment percentage50%Coursework assessment percentage50%					
	Practical exam as	sessment percen	tage (100	<u>)%</u>)%		

Reading Strategy	 Access and skills Formal opportunities for students to develop their library and information skills are provided within the induction period and student 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. 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, or in the Library. Module guides will also reflect the range of reading to be carried out. 					
	<i>Further Reading</i> Further reading is advisable for this module, and students will be encouraged to explor at least one of the titles held in the library on this topic. A current list of such titles will given in the module handbook and revised annually.					
Indicative Reading List	 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. Bacha, W.J. & Bacha, L.M. (Current Edition) <i>A colour atlas of veterinary histology</i>. Lippencott: Philadelphia PA. Frandson, R.D. (Current Edition) <i>Anatomy and physiology of farm animals</i>. 					
	 Philidelphia: Lea and Febiger. Frape, D. (Current Edition) <i>Equine nutrition and feeding</i>. Oxford: Blackwell Scientific Ltd. 					
	 McDonald, P. (et al) (Current Edition) Animal nutrition. Longman Scientific & Technical. 					
	McKee, T. & McKee, J.R. (Current Edition) <i>Biochemistry: an introduction</i> . McGraw-Hill.					
	 Pond, W.G., Church, D.C. & Pond, K.R. (Current Edition) Basic animal nutrition and feeding. John Wiley & Sons, Inc. Reason W.O. (Current Edition) Physicles of demostic enimals. Philodelphia: Lease 					
	 Reece, W.O. (Current Edition) <i>Physiology of domestic animals</i>. Philadelphia: Lea and Febiger. Buckeburgh X. Phanouf J. P. & Duplon P. (Current Edition) <i>Physiology of</i> 					
	 Ruckebusch, Y., Phaneuf, L-P. & Dunlop, R. (Current Edition) <i>Physiology of small and large animals</i>. Philadelphia: BC Decker Inc. 					
	 Websites and databases: British Society of Animal Science <u>www.bsas.org.uk.</u> 					
	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.					

	Part 3:	Assessment					
Assessment	t The assessment strategy for the module is via an examination and an assignment.						
Strategy	The examination has been chosen so to facilitate broad assessment of the knowledge and understanding; and intellectual skills gained throughout the module in a time-limited and controlled setting.						
	The written assignment has been chosen so as to facilitate in depth utilisation of the information covered throughout the module, as well as via additional study. This will also facilitate the development of transferable skills, such as scientific writing and research.						
	 Feedback will be provided throughout the module via tutorial support, class discussions, short exercises and review of results of practical sessions, in addition to that written on assignment submissions and examination scripts. 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. 						
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) Description of each element				Element weighting			
1 Examination (1 hour)			100%				
Component B Description of each element			Element weighting				
1 Written assignment (1250 words)			100%				
Resit (further atte	endance at taught classes is no	t required)					
Component A (controlled conditions) Description of each element			Element weighting				
1 Examination (1 hour)			100%				
Component B Description of ea	ch element		Element	weighting			
Written assignment (1250 words)			100%				
	nitted an EXCEPTIONAL RETAK ption at the time that retake comm		nt will be that i	ndicated by			