CDA4 Programme Design Template Module specification (with KIS) 2014-15



ACADEMIC SERVICES

MODULE SPECIFICATION

MODEL SI LOI IOATION						
Part 1: Basic Data						
Module Title	Systems Biolog					
Wodule Title	Systems blolog	у				
Module Code	UINXK4-15-1		Level	1	Version	1.1
UWE Credit Rating	15	ECTS Credit	7.5	WBL modu		1
		Rating				
Owning Faculty	Hartpury		Field	Animal and Land Science		nce
				_		
Department	Animal and Land Module Type Standard					
Contributes towards	FdSc Animal Behaviour & Welfare					
	FdSc Animal Science & Management					
	BSc (Hons) Animal Behaviour & Welfare					
Pre-requisites	None		Co- requisites	requisites None		
Excluded	None		Module Entry	None		
Combinations			requirements			
First CAP Approval	29 May 2013		Valid from	01 September 2013		
Date						
Revision CAP	29.05.13 versio		Revised with	01 Septem	ber 2016	
Approval Date	02.12.15 versio	n 1.1	effect from			

Review Date	01 September 2019
(6 years from full	
CAP approval date	
(not revisions)	

Part 2: Learning and Teaching				
Learning Outcomes	 On successful completion of this module students will be able to: Describe the structure of the animal body at a cellular level and relate this to the gross anatomy and management of the animal (A, B); Identify how the anatomical and physiological mechanisms of a range of animals have adapted to their ecological niches (A); Demonstrate knowledge of the scientific principles behind the growth and development of animals (A); Demonstrate a scientific understanding of animal physiology and relate it to a range of species and management (A); Understand the physiological mechanisms involved in homeostasis and relate this to effective management of a range of animals (A); 			
	 6. Demonstrate preparation of laboratory reports to industry standard (B); 7. Process, interpret and present data using appropriate qualitative and quantitative techniques (A, B). 			
Syllabus Outline	 Basic tissue and cell types. Development of tissues and cells into organs and organ systems. Structure of the major organ systems. Integration of systems in control of bodily functions. 			

			ections, bound	aries and mod	des of move	ment of body
	segments and joints.					
	The above will be contextualised by application to a range of species, including rodents, lagomorphs, equidae and carnivores which are commonly kept as companion or laboratory animals.					
Contact Hours	Indicative delivery modes:					
	Lectures, guided learning, seminars etc 33					
	Self directed stu- Independent lea TOTAL 150			3 114		
Teaching and		_				
Learning Methods	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.					
	Independent learning May include 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.					
	Virtual learning environment (VLE) 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.					
Key Information Sets Information	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.					
	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 necessarily refle of this module d	ct the compor				

Total assessment of the module:	
Written exam assessment percentage	0%
Coursework assessment percentage	50%
Practical exam assessment percentage	50%
	100%

Reading Strategy

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.

Further reading

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 found 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 their academic literature.

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.

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.

Akers, R.M. (Current Edition) *Anatomy and Physiology of domestic animals*. Oxford: Blackwell Publishing.

Aspinall, V. (Current Edition) *Introduction to veterinary anatomy and physiology textbook.* Edinburgh: Butterworth Heinemann.

Boyd, J.S. (Current Edition) *Colour atlas of clinical anatomy of the dog and cat.* London: Mosby-Wolfe.

Evans, H.E. and Christensen, G.C. (Current Edition) *Miller's anatomy of the dog*. Philadelphia: W. B. Saunders Company.

Frandson, R.D. and Spurgeon, T.L. (Current Edition) *Anatomy and physiology of farm animals*. Philadelphia: Lea & Febiger.

Jenkins, G. (Current Edition) *Anatomy and physiology: from science to life*. Hoboken, N.J.: John Wiley.

Ruckebusch, Y., Phaneuf, L-P. and Dunlop, R. (Current Edition) *Physiology of small and large animals.* Philadelphia: BC Decker Inc.

Thibodeau, G. (Current Edition) *Anatomy and physiology*. St. Louis, Mo: Mosby Elsevier.

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 Strategy

Assessment for this module will address a wide range of learning outcomes in a practical format to enable the student to demonstrate their ability to apply their knowledge. The practical examination will involve work stations testing skills the students have been able to develop during practical sessions undertaken throughout the module. During these sessions students will receive guidance and formative feedback to support them developing these skills and the associated knowledge required to fulfil the learning outcomes. The laboratory report requires students to write up their practical sessions, interpreting their outcomes and findings in line with current understanding. This is designed to encourage engagement in the module's practical sessions to develop skills that they will be able to use in the future during their studies and within a future career within industry and research. The assessment facilitates in depth utilisation of laboratory skills gained in these practicals and requires the student to relate their findings/observations to knowledge gained within the module.

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 VLE.

Identify final assessment component and element	Practical examination			
		A:	B:	
% weighting between components A and B (Standard modules only)			50%	
First Sit				
Component A (controlled conditions) Description of each element		Element weighting (as % of component)		
Practical examination (45 minutes)			100%	
Component B Description of each element		Element weighting (as % of component)		
Laboratory report (1250 words)		100%		

Resit (further attendance at taught classes is not required)				
Component A (controlled conditions)	Element weighting			
Description of each element	(as % of component)			
Practical examination (45 minutes)	100%			
Component B Description of each element	Element weighting (as % of component)			
Laboratory report (1250 words)	100%			

If a student is permitted a retake of the module under the University Regulations and Procedures, the assessment will be that indicated by the Module Description at the time that retake commences.