University of the West of England
BRISTOL

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic data						
Module title	Anatomy and Physiology					
Module code	UINXNW-30-1		Level	1	Version	1
Owning faculty	Hartpury		Field	Animal and Land Science		
Contributes towards	BSc (Hons) Animal Science BSc (Hons) Bioveterinary Science					
UWE credit rating	30	ECTS Credit Rating	15	Module type	Standard	
Pre-requisites	None		Co-requisites	None		
Excluded combinations	None		Module entry requirements	None		
Valid from	01 September 2013		Valid to	01 September 2019		

CAP approval date	04 July 2013

Part 2: Learning and teaching	
Learning outcomes	On successful completion of this module students will be able to: 1 Describe the structure of the animal body at a cellular level and relate this to the gross anatomy of the animal (B). 2 Identify how the anatomical and physiological mechanisms of a range of animals have adapted to their ecological niches (A). 3 Demonstrate knowledge of the scientific principles behind the growth and development of animals (A). 4 Demonstrate a scientific understanding of animal physiology and relate it to a range of species (A). 5 Understand the physiological mechanisms involved in homeostasis and relate this to effective management of a range of animals (A). 6 Preparation of laboratory notebooks to industry standard, including processing, interpret and present data using appropriate qualitative and quantitative techniques (B).
Syllabus outline	1 Basic tissue and cell types. 2 Development of tissues and cells into organs and organ systems. 3 Structure of the major organ systems, to include: musculo-skeletal systems; cardiovascular system; lymphatic system; nervous system; digestive system; urinary system; reproductive system; endocrine system; respiratory system. 4 Integration of systems in control of bodily functions. 5 Anatomical plains, directions, boundaries and modes of movement of body segments and joints. 6 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 66 Self directed study 6 Independent learning 228 **TOTAL** **300**
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) 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.
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: 30 Hours to be allocated: 300 | Scheduled learning and teaching study hours: 72 | Independent study hours: 228 | Placement study hours: 0 | Allocated Hours: 300 The table below indicates as a percentage the total assessment of the module which constitutes a: 1 *Written exam:* Unseen written exam, open book written exam, in-class test. 2 *Coursework:* Written assignment or essay, report, dissertation, portfolio, project. 3 *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 percentage 50% Coursework assessment percentage 25% Practical exam assessment percentage 25% 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 is advisable for this module, and 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. ***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. & Christensen, G.C. (Current Edition) *Miller's anatomy of the dog*. Philadelphia: W. B. Saunders Company. • Frandson, R.D. & 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. & 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 consist of two elements of controlled conditions assessment and one laboratory report. The first of the two examinations (element 1) will take the form of a written examination, including a section of multiple choice questions, and essay style questions. The second examination (element 2) will take the form of a practical examination, involving work stations to practically identify anatomical features and physiological outcomes, largely derived from practical sessions undertaken throughout the module. This form of assessment will address a wide range of learning outcomes in a practical format to assess whether the student is able to apply the knowledge they have gained throughout the module. Component B will take the form of a single element of assessment, as a laboratory report of one or more practical sessions. Students will be required to write up their practical sessions, and interpret outcomes and findings in line with current understanding and research. This form of assessment is designed to encourage engagement in the practical sessions and develop skills of application to industry and research. The laboratory report assignment is chosen to facilitate in depth utilisation of laboratory skills gained in practicals and relating findings/observations to material learnt in lectures and gained in additional study via analysis, evaluation and discussion. 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:**
		75%	25%
First sit			
Component A (controlled conditions) **Description of each element**		**Element weighting**	
1	Written examination (2 hours)	66.7%	
2	Practical examination (30 minutes)	33.3%	
Component B **Description of each element**		**Element weighting**	
1	Laboratory report (1500 words)	100%	
Resit (further attendance at taught classes is not required)			
Component A (controlled conditions) **Description of each element**		**Element weighting**	
1	Written examination (2 hours)	66.7%	
2	Practical examination (30 minutes)	33.3%	
Component B **Description of each element**		**Element weighting**	
1	Laboratory report (1500 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.			