University of the West of England
BRISTOL

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic data						
Module title	Equine Functional Anatomy					
Module code	UIEXN8-30-1		Level	1	Version	1
Owning faculty	Hartpury		Field	Equine		
Contributes towards	BSc (Hons) Equine Science BSc (Hons) Equine Science (SW) BSc (Hons) Equestrian Sports 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	01 August 2013

Part 2: Learning and teaching	
Learning outcomes	At the end of this module the student should be able to: 1 Demonstrate underpinning knowledge of equine anatomy at both gross and cellular levels (A, B). 2 Demonstrate histological identification and dissection techniques (B). 3 Apply mammalian physiology to the horse model (A, B). 4 Appreciate the dynamic balance and integration of the major systems of the horse (A, B). 5 Identify the physiological mechanisms involved in homeostasis (A, B). 6 Appreciate the evolutionary adaptations that have led to the form and function of the modern equid.
Syllabus outline	1 Classification and nomenclature of directions, planes and axes as applied to the equine model. 2 Anatomical hierarchy from cellular to organ level. 3 Form and function of connective tissue. 4 Structure, physiology and evolutionary developments of the equine skeleton, including joints. 5 Structure and function of skeletal muscles including physiological contractile properties. 6 Structure, function and organisation of the nervous system. 7 The systems of internal environmental control: structure, function and interaction of the nervous and endocrine systems in the maintenance of homeostasis. 8 The cardiovascular system: the structure and function of the heart and associated circulatory vessels.

	9 The lymphatic system: the structure and function of lymphatic nodes, vessels and fluid. 10 The respiratory system: structure and function of the upper and lower respiratory tract. 11 The reproductive system: structure and function of the reproductive tracts of the non-pregnant mare and the stallion. 12 The excretory system: structure and function of the liver, kidneys, bladder and associated structures.
Contact hours	Indicative delivery modes: Lectures, guided learning, seminars etc 66 Self directed study 6 Independent learning 228 **TOTAL** **300**
Teaching and learning methods	A variety of learning strategies will be used including scheduled learning, where students will receive theoretical and the opportunity to apply this knowledge (72 hours). It is expected that students will spend a minimum of 228 hours on independent learning as this is an essential component of modules at postgraduate level. Students will not be able to complete the module successfully without undertaking the required amount of independent learning. This independent learning will include a combination of lone study and individual, pair and group work. ***Scheduled learning*** Delivery includes lectures, laboratory dissections, formative assessments, tutorials, demonstrations, practical sessions and group discussions. ***Independent learning*** Includes hours engaged with essential reading, directed reading of a paper for presentation to the rest of the group, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below. ***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. <u>Key information set - module data</u> *Number of credits for this module* 30

Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated hours
300	72	228	0	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 50% Practical exam assessment percentage 0% 100%
Reading strategy	***Essential reading*** Core material will be indicated to the student via pre-course material, module guides and through their accessing a dedicated virtual learning environment (VLE) programme presence. No requirement for the purchase of set text(s) will be made and students will have full access to library services, online applications, and inter-library loans. ***Further reading*** Students will be supplied with indicative reading lists for the module and for the individual lecture sessions to support them in their independent study. In addition, a Study Calendar will be provided as part of the module support which outlines suggested pre and post reading for each lecture session/topic. They will be required to read widely using the library catalogue, 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 up-to-date literature and classic works from the academic literature and wider professional sources. ***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. • Cunningham, J. & Klein, B. G. (Current Edition) *Textbook of Veterinary Physiology. Missouri*: Saunders. • Dyce, K. M., Sack, W. O. & Wensing, C.J.G (Current Edition) *Textbook of Veterinary Anatomy*. Philadelphia: Saunders. • Grönberg, P. (Current Edition) *ABC of the horse: A handbook of equine anatomy, biomechanics and conditioning*. Finland: PG-Team. • Higgins, G. (Current Edition) *How your horse moves*. Cincinnati: David and Charles Ltd. • Hill, R.W. (Current Edition) *Animal Physiology*, Sunderland, Mass: Sinaur Associates • Kainer, R.A. and McCracken, T.O. (Current Edition) *Horse anatomy: a colouring atlas*. Loveland, Colorado: Alpine Publications. • McCracken, T.O., Kainer, R.A. & Spurgeon, T.L. (Current Edition) *Spurgeon's colour atlas of large animal anatomy. The essentials*. Baltimore: Lippincott, Williams and Wilkins. • Reece, W.O. (Current Edition) *Functional anatomy and physiology of domestic animals*. London: Lippincott Williams and Wilkins. • Schmidt-Nielson, Knut. (Current Edition) *Animal physiology: Adaptation and environment*. Cambridge: Cambridge University Press.

	• Seeley, R.R., Stephens, & Tate, P. (Current Edition) *Anatomy and Physiology*. Boston: McGraw-Hill • Smythe, R.H. & Goody, P.C. (Current Edition) *Horse Structure & Movement*. London: A. Allen and Company Ltd

Part 3: Assessment			
Assessment strategy	The module will be formally assessed via a laboratory notebook (Component B) which is aimed and increasing student engagement throughout the module by requiring them to build on their Laboratory Notebook throughout the module within the applied practical sessions. The requirements of the laboratory notebook will include aspects such as reports of procedure undertaken, labelled diagrams of dissections performed, results from summative quizzes and of practical tests undertaken within the applied sessions and will enable this component to assess the broad range of topics within the modules syllabus. The resit assessment for Component B is a written assignment. This therefore takes in to consideration that some students may be required to complete the resit due to unforeseen, long-term absences preventing the completion of the laboratory notebook. The written examination (Component A) will ensure that students can demonstrate a robust understanding of the material covered during the module in a controlled examination setting. The laboratory notebook has a higher component weighting to reflect the continued engagement that is required by the students throughout the module in order to complete this component successfully. Feedback can be gained from this module in the module delivery, through formative assessments, on feedback sheets, on the VLE, in tutorials and in revision sessions. 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**:
		40%	60%
First sit			
Component A (controlled conditions) **Description of each element**		**Element weighting**	
1	Written examination (1.5 hours)	100%	
Component B **Description of each element**		**Element weighting**	
1	Laboratory notebook	100%	
Resit (further attendance at taught classes is not required)			
Component A (controlled conditions) **Description of each element**		**Element weighting**	
1	Written examination (1.5 hours)	100%	
Component B **Description of each element**		**Element weighting**	
1	Written assignment (2500 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.			