

Module Specification

Part 1: Basic Data							
Module Title	dule Title Racehorse Performance and Rehabilitation						
Module Code	UIEV7M-45-2		Level	2	Ver	sion	1
Credit Rating	45	ECTS Credit Rating	22.5	WBL module? No			
Owning Faculty	Hartpury		Field	Equine			
Department	Equine Module Type			Standard			
Contributes towards	BSc (Hons) Racehorse Performance and Rehabilitation BSc (Hons) Racehorse Performance and Rehabilitation (SW)						
Pre-requisites	None Co- requisites None						
Excluded Combinations	None		Module Entry requirements	None			
Last Major Approval Date	23 February 2017		Valid from	01 September 2017			
Amendment Approval Date			Revised with effect from				

Part 2: Learning and Teaching				
Learning Outcomes	On successful completion of this module students will be able to:			
	 Apply anatomical and physiological knowledge to exercising, training and rehabilitation practices in racehorses. (A, B) 			
	 Evaluate physiological and biomechanical responses to exercise and training in the racehorse. (A, B) 			
	 Critically appraise the short and long-term effectiveness of training regimens to prepare racehorses for competition. (B) 			
	 Analyse factors which affect the kinematics and kinetics of racehorse gait. (A) Apply knowledge and understanding of functional anatomy to evaluate the efficacy of racehorse rehabilitation regimens. (A) 			
Syllabus Outline	Racehorse conformation			
	Core principles of training: preparation for competition, enhancing performance and success, promoting career longevity and preventing injury			
	 Physiological, biomechanical and behavioural responses to exercise and training 			
	Training types: endurance, strength and conditioning, high intensity training			
	Evaluation of fitness and fatigue			
	 Training regimens: goal setting, periodisation, tapering, motor skill acquisition, post injury 			
	 Alternative training methods: high speed treadmill, swimming, underwater treadmill, ground schooling etc 			
	• Training practices in the racing industry: flat, hurdle, steeplechase, trotting, point to point, pre-training, sales preparation, youngster preparation			
	Impact of training on the racehorse and common risk factors for injury during			
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	Written Exam: U Coursework: W Practical Exam:	ritten assigni	ment or essay	, report, dissei	tation, portfol	io, project	nt
	The table below indicates as a percentage the total assessment of the module which constitutes a -						
	Hours to be allocated 450	Scheduled learning and teaching study hours 216	Independent study hours 234	Placement study hours	Allocated Hours 450	0	
		credits for this			45		
	Ali meli e u st	wo dite for the	modula		4.5		
	Key Inform	ation Set - M	odule data				
Key Information Sets Information	HEFCE require k undergraduate pu of standardised in students to comp applying for.	rogrammes on formation al	of more than one than one that one that the second se	ne year in leng duate courses	oth. KIS are of allowing pros	comparable spective	
	this data and use it to evidence training and rehabilitation decisions. Industry visits to observe training and rehabilitation practices will also provide students with valuable opportunities to question industry professionals and learn from industry practice. Students are also encouraged to volunteer in the Hartpury equine therapy centre to further develop their rehabilitation knowledge. In addition, students will be expected to engage in independent learning and complete a range of guided learning activities throughout the course of the module. This independent and guided learning will involve activities designed to support students with the preparation of assessments and developing their subject knowledge via further reading. Teaching and learning will be supported via the VLE.						
Teaching and Learning Methods (and contact hours)	A variety of learning strategies will be used including lectures, seminars and practical demonstrations utilising the Hartpury equine yard and equine therapy centre facilities. Visits to training and rehabilitation establishments will also occur so students can observe theory in practice and provide valuable opportunities to learn from industry professionals. Case study evaluation will be a key component of the delivery strateg for this module and will be used in the classroom and via the VLE to enable students to contextualise the principles covered into real world practice. Students will also be exposed to a variety of fitness and gait assessment tools and techniques, and will have the opportunity to use these for data capture. They will also be encouraged to analysis					ties. can istry tegy ents o be iave	
	Assessm analysis	ient tools and	d an introductio	on to data ana	lysis: fitness,	fatigue, ga	ıit
	Gait anal	ysis in the h	orse: kinetic a	nd kinematic a	nalysis		
		•	ne gaits; norm		gait		
		treadmill) use in training and rehabilitation of racehorsesIntroduction to ground schooling for rehabilitation					
	Introduct	 Introduction to high speed treadmill and hydrotherapy (swimming, water 					
	 Introduction to racehorse rehabilitation practice for common injuries: lameness, musculoskeletal soft tissue damage, tendon, ligaments, spin pathology, foot pain, dorsal metacarpal disease, pain. 						
	training a	and competiti	on				

	Please note that this is the total of various types of assessmencessarily reflect the component and module weightings in of this module description: Total assessment of the module: Written exam assessment percentage Coursework assessment percentage Practical exam assessment percentage	
Reading Strategy	 <i>Essential reading</i> Core material will be indicated to the student via module guid module presence. No requirement for the purchase of set test students will have full access to library services, online appliloans. <i>Further reading</i> Students will be encouraged to source reading from a variety those indicated by the module leader to aid the development and facilitate the start of a critical appreciation of the quality information. Students should utilise the library catalogue services and lay press publications. Additionates will be available via the VLE and other or them to be accessed remotely. <i>Access and skills</i> Formal opportunities for students to develop their library and provided within the induction period and student skills session available through online resources. This includes interactive and journals, evaluation information and referencing. Sign up are also offered. 	xt(s) will be made and cations and inter-library y of sources including t of literature searching of different sources of vice, a variety of tional resources and inline platforms enabling
Indicative Reading List	 The following list is offered to an indication of the type and lestudents may be expected to consult. As such, its currency span of the module specification. However, as indicated aboreadings will be available via other more frequently updated Books: Alexander, R. (Current Edition) <i>Principles of Animal Locom</i> University Press. Back, W. and Clayton, H. (Current Edition) <i>Equine locomot</i> Saunders. Biewener, A. (Current Edition) <i>Animal Locomotion</i>. New Yor Press. Clayton, H.M. (Current Edition) <i>The Dynamic Horse</i>. Canade Publications. Clayton, H.M. (Current Edition) <i>Conditioning sport horses</i>. Sport Horse Publications. Fitzgeorge-Parker, T. (Current Edition) <i>Training the Raceho</i> Allen. Higgins, A.J. and Snyder, J.R. ed. (Current Edition) <i>The eq</i> Elsevier Saunders. 	may wane during the life ove, CURRENT advice on mechanisms. <i>otion</i> . UK: Princetown <i>ion</i> . London: W.B. vrk: Oxford University da: Sports Horse Saskatoon, Canada: orse. London, UK: J. A.

Hinchcliff, K.W., Kaneps, A.J. and Geor, R.J. (Current Edition) <i>Equine exercise physiology: the science of exercise in the athletic horse</i> . Edinburgh. Elsevier Saunders.
Hodgson, D.R. and Rose, R.J., ed. (Current Edition) <i>The athletic horse: Principles and practices of equine sports medicine</i> . Philadelphia: W. B. Saunders.
Marlin, D. and Nankervis, K. (Current Edition) <i>Equine exercise physiology</i> . Oxford: Blackwell Science.
Murch, P.M. (Current Edition) <i>Training Thoroughbred Horses</i> . Vermont, USA: Echo Point Books & Media.
Nigg, B.M. and Herzog, W. (Current Edition) <i>Biomechanics of the musculoskeletal system.</i> Chichester: J. Wiley & Sons.
Williams, J.M. and Evans, D. (Current Edition) <i>Training for Equestrian Performance</i> . Wageningen, Netherlands: Wageningen Press.
Websites: British Horseracing Authority: <u>http://www.britishhorseracing.com/</u>
National Trainers Federation: <u>http://www.racehorsetrainers.org/homepage/index.asp</u>
Thoroughbred Owner and Breeder: http://www.ownerbreeder.co.uk/
Journals:
Comparative Exercise Physiology Equine Veterinary Journal Equine Veterinary Education Journal of Veterinary Behavior Veterinary Clinics of North America: Equine Practice The Veterinary Journal
Industry Magazines: Trainer Magazine

Part 3: Assessment		
Assessment Strategy	The assessment strategy for the module is via an open book written examination and a written assignment. The open book written examination has been chosen to facilitate broad assessment of knowledge and understanding of the subject matter while allowing students to demonstrate their ability to apply this knowledge. Examples of this include the evaluation of training and exercise responses within training regimens, use of technology to inform training and rehabilitation decision-making, and the application of different rehabilitation methods in racehorses such as treadmill use to promote a successful return to the racetrack. The assignment will be case study driven and will require students to use the knowledge and understanding they have developed through the module to appraise the efficacy of training practices in racehorses.	
	To support student achievement, formative opportunities to engage in reflection and to evaluate individual case studies, with staff feedback, will be provided during seminars and lectures. Formative feedback will also be provided throughout the module via tutorial support, class discussions and various exercises that enable students to apply key training and biomechanical principles. Interactive VLE tasks will also be used to develop knowledge and understanding of the subject and to practice applying key knowledge and critical skills to different case studies	
	To support students' development, formative opportunities to engage in	
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	interactive learning opportunities which test their understanding of the topics covered by the module will be provided via the module page on the VLE. Interactive VLE tasks will also be used to develop individuals' academic, reflective and evaluation skills through verbal, written and digital communication. Students are also encouraged to engage with relevant academic skill development workshops available outside of the module to support personal development.
	In line with the Institution'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	Open book writter	n examinatio	n	
% weighting between components A and B (Standard modules only)			B: 50%	
First Sit Component A (controlled conditions) Element weighting				
Component A (controlled conditions) Description of each element			verginning	
1. Open book written examination (2.5 hours)			100%	
Component B Description of each element			Element weighting	
1. Written assignment (2500 words)			100%	

Resit (further attendance at taught classes is not required)			
Component A (controlled conditions) Description of each element	Element weighting		
1. Open book written examination (2.5 hours)	100%		
Component B Description of each element	Element weighting		
1. Written assignment (2500 words)	100%		

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