

MODULE SPECIFICATION

Part 1: Basic data						
Module title	Exercise Physiology					
Module code	UISXSB-15-2		Level	2	Version	2.0
Owning faculty	Hartpury		Field	Sport Science		
Contributes towards	BSc (Hons) Equestrian Sports Science BSc (Hons) Sport and Exercise Sciences BSc (Hons) Sport and Exercise Sciences (SW) BSc (Hons) Sport and Exercise Nutrition BSc (Hons) Sport and Exercise Nutrition (SW) BSc (Hons) Sports Conditioning and Injury Management BSc (Hons) Sports Conditioning and Injury Management (SW) BSc (Hons) Sports Therapy BSc (Hons) Sports Therapy (SW) BSc (Hons) Strength and Conditioning BSc (Hons) Strength and Conditioning (SW)					
UWE credit rating	15	ECTS credit rating	7.5	Module type	Standard	
Pre-requisites	Introduction to Human Physiology (UISXL9-15-1); <i>OR</i> Introduction to Exercise Physiology (UISXL7-15-1); <i>OR</i> Introduction to Equestrian Sports (UIEXN7-30-1)		Co-requisites	None		
Excluded combinations	None		Module entry requirements	Stand alone		
Valid from	01 September 2016 V2.0- 01 September 2018		Valid to	01 September 2024		
Initial CAP approval date	03 February 2015		Revised CVC Approval Date	V2.0- 02 May 2018		

Part 2: Learning and Teaching					
Learning outcomes	On successful completion of this module students will be able to:				
	1 Apply key physiological principles relating to exercise physiology (A).				
	Explain the theoretical principles and physiological mechanisms that underpin the body's responses and adaptation to exercise (A, B).				
	3 Evaluate and interpret information collected within a sport and/or exercise context (A, B).				
	Demonstrate critical understanding in the acquisition and analysis of information (B).				
Syllabus outline	1 Ethics of testing.				
	2 Pre-test preparation.3 Anthropometry.				
	4 Cardiovascular function during exercise.				
	5 Respiratory function during exercise.				
	6 Maximal oxygen uptake.				
	7 Blood lactate transition thresholds.				
	8 Lab and field based testing.				
	9 Assessment of maximal exercise intensity.				

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Indicative delivery	modos:									
Indicative delivery modes:										
		etc	33							
		,								
TOTAL		1	150							
Scheduled learning May include lectures, seminars, tutorials, project supervision, demonstration, practical classes in the Human Performance Laboratory and workshops; fieldwork; external visits; work based learning; supervised time in studio/workshop. Practical activities will focus on specific exercise physiology assessments designed to gauge relevant components of physiological function. Independent learning May include hours engaged with essential reading, case study preparation, assignment preparation and completion etc. Virtual learning environment (VLE)										
module information. Direct links to information sources will also be provided from within the VLE.										
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										
						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: 1										
	Lectures, guided le Self directed study Independent learn TOTAL Scheduled learni May include lecture classes in the Hurwork based learning specific exercise physiological function of the VLE. Key information and contribute sets of standardises students to compare for. Key Information set module contribute sets of standardises students to compare for. Key Information set module contribute sets of standardises students to compare for. Key Information set module contribute sets of standardises students to compare for. Key Information set module contribute sets of standardises students to compare for. Key Information set module contribute sets of standardises students to compare for. Key Information set module contribute sets of standardises students to compare for. Key Information set module contribute sets of standardises students to compare for. 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Independent learning May include hours engaged with essential reading, capreparation and completion etc. Virtual learning environment (VLE) This specification is supported by a VLE where studer module information. Direct links to information source the VLE. Key information sets (KIS) are produced at programmedule contributes to, which is a requirement set by lests of standardised information about undergraduate students to compare and contrast between programme for. Key Information Set – Module Data Number of credits for this module Hours to be allocated learning and study hours teaching study hours 150 36 114 The table below indicates as a percentage the total as constitutes a: 1 Written Exam: Unseen written exam, open booder coursework: Written assignment or essay, regoratical Exam: Oral Assessment and/or presassessment, practical exam. Please note that this is the total of various types of asseflect the component and module weightings in the Adescription: Total assessment of the module: Written exam assessment percentage Coursework assessment percentage Coursework assessment percentage	Lectures, guided learning, seminars etc Self directed study 114 TOTAL 150 Scheduled learning May include lectures, seminars, tutorials, project supervision, demonstrespecific exercise physiology assessments designed to gauge relevant of physiological function. Independent learning May include hours engaged with essential reading, case study prepara preparation and completion etc. Virtual learning environment (VLE) This specification is supported by a VLE where students will be able to module information. Direct links to information sources will also be protected by a VLE. Key information sets (KIS) are produced at programme level for all protected programme level for all protected programme in the VLE. 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Key Information Set — Module Data Number of credits for this module Hours to be allocated learning and study hours study hours teaching study hours 150 36 114 0 The table below indicates as a percentage the total assessment of the constitutes a: 1 Written Exam: Unseen written exam, open book written exam, 2 Coursework: Written assignment or essay, report, dissertation, 3 Practical Exam: Oral Assessment and/or presentation, practical assessment, practical exam. Please note that this is the total of various types of assessment and will reflect the component and module weightings in the Assessment sectic description: Total assessment of the module: Written exam assessm						

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Reading strategy

Core readings

Any essential reading will be indicated clearly, along with the method for accessing it, e.g. students may be required to purchase a set text, be given a print 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 readings

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 accessed 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 the academic literature.

Access and skills

Formal opportunities for students to develop their library and information skills are provided within the induction period and study 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.

- Astrand, P., Rodahl, K., Dahl, H. and Stromme, S. (Current Edition). Textbook of Work Physiology. Champaign: Human Kinetics.
- Brown, S., Miller, W. and Eason, J. (Current Edition) Exercise Physiology. Basis of Human Movement in Health and Disease. London: Lipponcott Williams and Williams
- Guyton, A. and Hall, J. (Current Edition) Human Physiology and Mechanism of Disease. London: W.B. Saunders and Co.
- Hale, T. (Current Edition) Exercise Physiology. A Thematic Approach. Chichester: John Wiley and Son.
- Kenny, W.L, Wilmore, J.H. and Costill, D.L. (Current Edition) *Physiology of Sport and Exercise. Fifth Edition*. Champaign, IL: Human Kinetics.
- Marieb, E. (Current Edition) Human Anatomy and Physiology. New York: Pearson.
- Martini, F. (Current Edition) Fundamentals of Anatomy and Physiology. London: Pearson.
- McCardle, W.D., Katch, F.I. and Katch V.L. (Current Edition). Exercise
 Physiology: Energy, Nutrition and Human Performance. London: Lippincott Williams and Williams.
- Tortora, G.J. and Derrickson, B. (Current Edition) *Principles of Anatomy and Physiology*. Chichester: John Wiley and Sons.

Journals:

- British Journal of Sports Medicine.
- Canadian Journal of Applied Physiology.
- Exercise and Sport Science Reviews.
- European Journal of Applied Physiology.
- International Journal of Sports Medicine.
- Journal of Applied Physiology.
- Journal of Physiology.
- Journal of Sports Sciences.
- Medicine and Science in Sport and Exercise.
- Research Quarterly for Exercise and Sport.
- Sports Medicine.

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Websites and databases:

- American College of Sports Medicine http://www.acsm.org.
- Journal of Sports Science & Medicine http://www.jssm.org.
- Pub Med http://www.ncbi.nlm.nih.gov/entrez/query.fcgi.
- Sports Science http://www.sportsci.org.
- The Physiological Society http://www.physoc.org.

Part 3: Assessment						
Assessment Strategy	, and a second s					
	Formative assessment opportunities will be provided through similar formats. Feedback will be provided on these attempts prior to summative assessments.					
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. Students studying the BSc (Hons) Sports Therapy are required to gain a minimum of 40% in each component and element. In addition, no compensation or condonement may be applied.						
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 Written examination (1.5 hours)			100%			
Component B Description of each element		Element weighting				
1 Laboratory report (1,500 words)			100%			
Resit (further a	ttendance at taught classes is not	t required)				
Component A (controlled conditions) Description of each element		Element weighting				
1 Written examination (1.5 hours)			100%			
Component B			Element	weighting		

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.

100%

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Description of each element

Laboratory report (1,500 words)