

Module Descriptor

Title	Principles of Exercise Physiology				
Session	2024/25	Status	Validated		
Code	SPOR08039	SCQF Level	8		
Credit Points	30	ECTS (European Credit Transfer Scheme)	15		
School	Health and Life Sciences				
Module Co-ordinator	Rachel Kimble				

Summary of Module

This module builds knowledge and practical skills developed in previous exercise modules. It will also underpin subsequent exercise physiology modules. Students will explore the key physiological responses to exercise. The module will equip students with the theoretical knowledge and practical skills of the physiological responses to exercise.

This module will assist the student in the development of key 'I am UWS Graduate Attributes' to allow those that complete this module to be:

Universal:

- Critical Thinker
- Collaborative
- Research-minded

Work Ready:

- Problem -solver
- Motivated
- Effective communicator

Successful:

- Innovative
- Incisive
- Driven

Module Delivery Method	On-Campus	1	Hybrid ²	Online	Online ³		Work -Based Learning⁴	
Campuses for Module Delivery	Ayr Dumfries		✓ Lanarkshire☐ London☐ Paisley		Learr	Online / Distance arning] Other (specify)		
Terms for Module Delivery	Term 1		Term 2		Term	13		
Long-thin Delivery over more than one Term	Term 1 – Term 2		Term 2 – Term 3		Term Term			

Lear	ning Outcomes
L1	Describe the metabolic and neuromuscular processes that underpin muscle contraction during exercise.
L2	Describe the principal acute cardiovascular, respiratory, and metabolic responses to exercise.
L3	Analyse, present, and interpret exercise physiology data collected in the laboratory.
L4	
L5	

Employability Skills and Personal Development Planning (PDP) Skills					
SCQF Headings	During completion of this module, there will be an opportunity to achieve core skills in:				
Knowledge and	SCQF 8				
Understanding (K and U)	Demonstrating a broad knowledge of the extent, and principle processes involved in cardiorespiratory and neuromuscular physiology at rest and in acute response to exercise.				
	Demonstrating an understanding of the core theories relating to physiological control in exercise.				
Practice: Applied	SCQF 8				
Knowledge and Understanding	Using a range of laboratory skills to obtain, interpret and present data from both experimental and scientific literature settings.				
	Students will develop routine skills in evaluating physiological responses at rest and to exercise.				

¹ Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

² The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

³ Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

⁴ Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Generic Cognitive skills	SCQF 8 Critically analysing and evaluating physiological data, developing research skills to formulate evidence based solutions.				
Communication, ICT and Numeracy Skills	SCQF 8 Developing routine skills regarding the use of physiological terminology both rally and in writing to convey complex information to a variety of audiences. Students will use a range of standard ICT applications to process, obtain and evaluate numerical and graphical physiological data.				
Autonomy, Accountability and Working with Others	Please select SCQF Level Demonstrating working effectively in group tasks during data collection, whilst taking continuing account of own and others' roles, responsibilities and contributions during physiological assessment sessions.				

Prerequisites	Module Code Module Title				
	Other				
Co-requisites	Module Code	Module Title			

Learning and Teaching

In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours.

The teaching and learning approach will utilise a combination of asynchronous, and synchronous online face to face delivery, with supporting resources to promote the development of a broad understanding of the principles of sport and exercise physiology. Learning will be facilitated through the use of UWS VLE systems.

Core theoretical content will be predominantly delivered through a series of blended delivery via face to face delivery and where appropriate online delivery, including recorded lectures. Face to face sessions will comprise of laboratory sessions, which will form a vital component of the module and allow the students to develop basic skills essential to the sport and exercise science graduate. This also provides the students with the opportunity to work independently or in small groups, generating formative feedback and assessment from both peers and staff.

Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	Student Learning Hours (Note: Learning hours include both contact hours and hours spent on other learning activities)
Laboratory / Practical Demonstration / Workshop	18
Tutorial / Synchronous Support Activity	12
Asynchronous Class Activity	24
Independent Study	246
Please select	
Please select	

TOTAL 300					
Indicative Resources					
The following materials form e ultimately for the learning out	essential underpinning for the modu comes:	le content and			
	Katch, V.L. (2023). Exercise Physiology:	Nutrition energy and			
	ational Edition. Philadelphia: Lippinco				
	ould include current publications, s ed with an asterisk*) to wait until the o-date material)				
Attendance and Engagement I	Requirements				
academically engaged if they campus and online teaching s	lance and Engagement Procedure, S are regularly attending and participa essions, asynchronous online learn d complete assessments and subm	iting in timetabled on- ing activities, course-			
	le, academic engagement equates t				
Tot the purposes of this mode	to, addadiiio diigagomont oquatos t	o the following.			
Equality and Diversity					
=	rsity and Human Rights Procedure c	an be accessed at the			
Tollowing link: <u>UWS Equality, I</u>	Diversity and Human Rights Code.				
(N.B. Every effort will be made	by the University to accommodate	any equality and			
diversity issues brought to the	attention of the School)				
Supplemental Information					
Divisional Programme Board	Sport Exercise Health				
Overall Assessment Results	Pass / Fail Graded				
Module Eligible for	☐ Yes ⊠ No				
Compensation	If this module is eligible for compe cases where compensation is not programme accreditation requiren the associated programme specifi	permitted due to nents. Please check			
School Assessment Board Sport, Exercise and Health					

Laura Forrest

Alice Tocknell

☐ Yes ⊠ No

N/A

1.02

Moderator

catalogue

External Examiner

Accreditation Details

Module Appears in CPD

Changes / Version Number

Assessment (also re	efer to A	ssessm	ent Out	comes (Grids be	low)	
Assessment 1							
Class test							
Assessment 2							
Laboratory report							
Assessment 3							
_							
(N.B. (i) Assessment					•	-	•
below which clearly							
(ii) An indicative sche assessment is likely							
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Component 1							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of	Timetabled
						Assessment	Contact
			 	 	 	Element (%)	Hours
Class test (written)						60	
Component 2	T .	<u> </u>			1	T	T
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
Report of practical/ field/ clinical work						40	
		_1				1	1
Component 3							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
_	Com	bined to	otal for a	ıll comp	onents	100%	hours
_							l
Change Control							
What				Wh	ien	Who	
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