

## **MODULE SPECIFICATION**

Module Code:	FAW415 / SIR4	02				
Module Title:	Introduction to A	Introduction to Anatomy and Physiology				
Level:	4	Credit Value:		2	20	
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Cost Centre(s):	GASP	JACS3 code: HECoS code:			C600 100350	
Faculty:	Social & Life Sciences		Module Leader:		Chelsea Moore	
Scheduled learning and teaching hours						40 hrs
Guided independent study					160 hrs	
Placement					0 hrs	
Module duration (total hours)						200 hrs
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Programme(s) in which to be offered (not including exit awards)	Core	Option
BSc (Hons) Football Coaching and the Performance Specialist	✓	
BSc (Hons) Sports Coaching and Performance Development	✓	
BSc (Hons) Sport, Health and Performance Science	✓	
BSc (Hons) Sports Injury Rehabilitation (registered on SIR402)	✓	

Pre-requisites	
None	

Office use only

Initial approval: 30/04/2019 Version no: 2

With effect from: 23/09/2019

Date and details of revision: addition of SIR programme Version no:

Module Aims			
This n	nodule will:		
	introduce the student to applied anatomy & physiology and enhance their knowledge and understanding of the complex systems within the human body. develop an understanding of models that explore the critical windows of opportunity to influence sport and health.		
	investigate how the body responds to sport and physical activity and explores the methods used to monitor the development of the bodily systems within a sporting context.		

# **Intended Learning Outcomes**

Key skills for employability

KS1	Written, oral and media communication skills
KS2	Leadership, team working and networking skills
KS3	Opportunity, creativity and problem solving skills
KS4	Information technology skills and digital literacy
KS5	Information management skills
KS6	Research skills
KS7	Intercultural and sustainability skills
KS8	Career management skills
KS9	Learning to learn (managing personal and professional development, self-
	management)
KS10	Numeracy

Demonstrate an understanding of how the various systems of KS1	KS2 KS4
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Lenionstrate an understanding of now the various systems of tree	KS4
the body work at rest and in relation to exercise.	
KS6	
2 Demonstrate the ability to collect, collate and statistically KS4	KS5
analyse physiological data. KS10	
KS1	KS2
Identify and demonstrate how to conduct specific KS3	KS4
physiological tests.	KS10
KS7	
Explain experimental data collected from laboratory based KS1	KS4
practical work KS6	KS10
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#### Transferable skills and other attributes

Working independently, working in groups, academic writing skills, practical and laboratory skills, numeracy and the use of IT.

#### **Derogations**

SIR402 Sports Injury Rehabilitation students must pass both elements of assessment at 40% or above

#### **Assessment:**

**Indicative Assessment Tasks:** 

#### Assessment 1: MCQ

Undertake a multiple choice examination assessing your knowledge of the anatomical structures within the body and how the body functions and rest and in response to exercise.

#### **Assessment 2: Laboratory Report**

Using the physiological data you have collected during your practical seminar, write a laboratory report.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1 & 3	Examination	40	2 hours	N/A
2	2 & 4	Report	60	N/A	2400

### **Learning and Teaching Strategies:**

The learning and teaching strategies will include lectures, seminars, practicals, peer-led discussions, tutorials, online based quizzes/tasks.

#### Syllabus outline:

- Introduction to working in a laboratory environment/health screening
- Homeostasis
- Muscular skeletal system
- Cardiovascular system
- Cardiovascular system part 2
- Critical research skills
- Energy systems
- Energy systems part 2
- Respiratory system
- Nervous system
- Immune system
- Revision skills and tips
- Endocrine system
- Introduction to SPSS

- Analysing quantitative data
- Report writing

### **Indicative Bibliography:**

### **Essential reading**

McArdle, W. D. Katch, F. I. and Katch, V. L. (2015), <u>Exercise Physiology: Energy, Nutrition & Human Performance.</u> 8th ed. Philadelphia: Williams and Wilkins.

Martini, F. H. (2015), *Fundamentals of Anatomy and Physiology*. 10th ed. New Jersey: Prentice Hall.

#### Other indicative reading

Hagens, V.G. and Lee, J. A. (2005), *Anatomy for Beginners*, Firefly Entertainment

Powers, S.K. and Howley, E.T. (2014), <u>Exercise Physiology. Theory and Application to Fitness and Performance.</u> 9th ed. Boston, Mass: McGraw-Hill.

Siegfried, D.R. (2011), Anatomy and Physiology for Dummies. 2nd ed. New York: Wiley.

Tortora, G.J. and Derrickson, B (2009), <u>Principles of Anatomy and Physiology</u>. New York: Wiley College Publishing.

Wirhead, R. (2006), Athletic ability & the anatomy of motion. 3rd ed. London: Mosby.