MODULE SPECIFICATION

Part 1: Information			
Module Title	Applied Anatomy and Physiology for Paramedic Science		
Module Code	UZYRUN-30-1	Level	Level 4
For implementation from	2020-21		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Health & Applied Sciences	Field	Allied Health Professions
Department	HAS Dept of Allied Health Professions		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
Educational Aims: See Learning Outcomes. **Outline Syllabus:** The Human Body: Key Concepts: Cell biology: Structure and functions, cell growth and proliferation. Homeostasis and major homeostatic processes. Biological chemistry relevant to paramedic practice. Microbiology: the main classes of pathogenic micro-organisms, the spread of infection and infection control. Tissue damage, healing and repair Acids, bases and buffers; properties and reactions. Immunology and the response to infection and injury The factors influencing individual variations in human ability and health status including the fundamentals of genetics and genomics. Nutrition and its role in health and illness. The Human Body: A Systems Approach: The anatomy and physiology of the: Respiratory System: Including lung volumes, control of respiration, diffusion and gas exchange and pressure and gas laws. Cardiovascular System: Including haemodynamics and viscosity in relation to blood flow, control of blood pressure, blood groups, haemostasis, osmosis and fluid and electrolyte balance.

Nervous System: Including the central, peripheral and autonomic nervous system and neurotransmission.
Gastro-Intestinal System: Including digestion, absorption, structure and functions of liver, and formation and excretion of bile.
Genito-Urinary System.
Reproductive System.
Endocrine System: Including hormones; types, mechanism of action.
Integumentary System.
Lymphatic System.
Musculoskeletal System: Including bone growth and development, muscle physiology and neuromuscular control.

Teaching and Learning Methods: Scheduled learning includes lectures and tutorials.

Independent learning includes hours engaged with essential reading, reflective, comprehensive, interactive online learning materials, revision etc.

Students will typically engage in eight, 3-hour interactive lectures. Group sizes on the module vary but groups are typically up to 30. Students are also given access to bespoke, interactive learning resources for the module, containing a module guide, reading material, audios, games and quizzes giving opportunities to develop knowledge and understanding as they progress through the module. In addition, phone, email and discussion group contact with staff is available throughout the module and during scheduled tutorial time.

Part 3: Assessment

Summative assessment

Component A: (50%) an online examination at the end of semester 2 will use MCQs to assess the breadth of the student's knowledge and will additionally assess learning from workshops and practicals through short answer questions. Rationale; to provide an opportunity to assess the student's general knowledge and understanding of all aspects of Life Sciences.

Component B: (50%): A structured oral and practical examination of up to 45 minutes to assess the students ability to identify anatomical structures and to describe function and purpose Rationale: To provide an opportunity for the student to demonstrate knowledge of anatomy and physiology and articulate using the correct anatomical and physiological terminology.

Formative assessment

Will take place through clinical skills supervision and feedback, also tutorial support and reading by a personal tutor of draft work.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Examination (Online) - Component A		50 %	Online examination (24 hours)
Practical Skills Assessment - Component B	✓	50 %	Online Structured oral and practical examination (SOPE)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Examination (Online) - Component A		50 %	Online examination (24 hours)
Practical Skills Assessment - Component B	✓	50 %	Online Structured oral and practical examination (SOPE)

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will achieve the following learning outcomes:

Module Learning Outcomes	Reference
Describe the essential concepts in biological chemistry and cell biology	MO1
Identify the fundamentals of human anatomy and physiology, recognising the dynamic relationships between anatomical structure and function	MO2
Explain the principles of homeostasis and major homeostatic processes	MO3
Demonstrate an understanding of basic immunology and response to infection and injury	MO4
Recognise the role of nutrition in health and illness	MO5
Outline the factors influencing variations in human ability and health status, including the key concepts in genetics and genomics	MO6
Apply anatomical and physiological concepts to inform paramedic practice	MO7
Recognise human growth and development across the lifespan including the factors influencing health status	MO8

Contact Hours

Independent Study Hours:	
Independent study/self-guided study	141
Total Independent Study Hours:	141
Placement Study Hours:	
Placement	141
Total Placement Study Hours:	141
Scheduled Learning and Teaching Hours:	
Face-to-face learning	18
Total Scheduled Learning and Teaching Hours:	18
Hours to be allocated	300
Allocated Hours	300

Reading List

The reading list for this module can be accessed via the following link:

https://uwe.rl.talis.com/modules/uzyrun-30-1.html

Part 5: Contributes Towards
This module contributes towards the following programmes of study: Paramedic Science [Sep][DL][Glenside][3yrs] DipHE 2020-21 Paramedic Science [Mar][DL][Glenside][3yrs] DipHE 2020-21 Paramedic Science [Jul][DL][Glenside][3yrs] DipHE 2020-21 Paramedic Science [Dec][DL][Glenside][3yrs] DipHE 2020-21