University of the West of England
BRISTOL

ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Human Anatomy and Physiology					
Module Code	UZYRGS-15-0		Level	0	Version	1
Owning Faculty	Health and Applied Sciences		Field	Allied Health Professions		
Contributes towards	Foundation Programme for Health Professions					
UWE Credit Rating	15	ECTS Credit Rating	7.5	Module Type	Standard	
Pre-requisites	None		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements			
Valid From	September 2014		Valid to	September 2020		

CAP Approval Date	29/05/2014

Part 2: Learning and Teaching	
Learning Outcomes	On successful completion of this module students will be able to: • Demonstrate an understanding of metabolic and energy pathways (Component A) • Outline the specific regulatory systems and explain the characteristics of homeostasis (Component A) • Describe the structure of the digestive, reproductive, nervous and endocrine systems and explain their functions (Component A) • Outline the body's defence mechanisms against infection and relate this to pathology (Component B) • Relate biological theory to health and well-being (Component B) • Utilise basic information retrieval skills (Component B)
Syllabus Outline	**Mode of action of enzymes** Importance of enzymes in controlling the catabolic and anabolic reactions of metabolism Models of enzyme action and inhibition Effects of temperature, pH, substrate and enzyme concentration **Human digestive system and its functions**

	Structure of digestive system Peristalsis Sources, substrates and necessary conditions for some major enzymes of the digestive system **Human reproductive system and its function** Role of hormones in the physical changes occurring at puberty Structure and function of main features of female and male reproductive system Hormonal interactions and menstrual cycle Process of fertilisation including structure and function of sperm cells and oocytes Structure and function of the placenta during pregnancy Foetal development **Homeostasis** Importance of homeostasis Main systems responsible for the maintenance of a constant internal environment Negative feedback Thermoregulation The liver and its role in homeostasis with reference to blood glucose levels, deamination and the formation of the urea The kidneys and their role with reference to removing waste products and osmoregulation **Nervous system** Structure and function of motor and sensory neurones Nature of nerve impulse transmission **Endocrine system** Function of endocrine glands including the position and role of the main endocrine glands Mechanisms of hormonal control with reference to insulin, glucagon and adrenaline **Defence against infection** Roles of skin, mucous membranes and clotting of blood in preventing the invasion of micro-organisms Antigens and antibodies and their function Artificial enhancement of defence against infection **Nature of infective and parasitic diseases** Viral, parasitic and bacteria diseases Transmission Treatment, prevention and control
Contact Hours	This module operates on the basis of 150 hours of study in total. This includes 90 hours of scheduled teaching • Lectures and workshops 36 hours • Laboratory sessions 36 hours • Tutorials 18 hours
Teaching and Learning Methods	**Scheduled learning** includes lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops. **Independent learning** includes hours engaged with essential reading, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below.

Key Information Sets Information	**Key Information Set - Module data** *Number of credits for this module*: 15 Hours to be allocated: 150 | Scheduled learning and teaching study hours: 90 | Independent study hours: 60 | Placement study hours: 0 | Allocated Hours: 150 The table below indicates as a percentage the total assessment of the module which constitutes a - **Written Exam**: Unseen written exam. **Coursework**: Written assignment or essay, report. Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description: Total assessment of the module: Written exam assessment percentage: 70% Coursework assessment percentage: 30% 100%
Reading Strategy	Students will be directed to reading which is either available electronically or in paper format. They will also be expected to read more widely by identifying relevant material using the Module Handbook, the UWE Library Catalogue and resources such as those listed below: www.innerbody.com www.bioanim.com www.visembryo.com http://www1.uwe.ac.uk/library/
Indicative Reading List	**Essential reading list;** Waugh, A. and A. Grant. (2010). *Ross and Wilson Anatomy and Physiology in Health and Illness*. 11th Ed. London: Churchill-Livingstone **Recommended reading list;** Cohen, B. J., Taylor, J. J., and Memmler, R. L. (2009). *Memmler's the human body in health and disease*. Philadelphia, PA: Wolters Kluwer Health/Lippincott William & Wilkins. Comerford, K., (Ed.) (2009). *Anatomy and physiology made incredibly easy.* 3rd Ed., US: Lippincott Williams & Wilkins. Kahle, W. and M. Frotscher. (2011). *Colour Atlas of Human Anatomy*. 6th Ed. Vol 3. USA: Thieme: 42-102 Roberts, A., (2010). *The Complete Human body*. London: Dorling Kindersley Starr, C. and McMillan, B. (2013). *Human Biology* 10th ed. Australia: Thomson-

	Brooks/cole. Tortorah G., and Grabowsji, S (2010). *Principles and Anatomy and Physiology.*8th Ed.London; John Wiley and sons. Pickering, W. R.. (2009). *AS and A Level Biology Through Diagrams*. Oxford: Oxford Revision Guides **Websites** http://www.primalonlinelearning.com/MySubscription.aspx Subscription required – great site for all biology material http://www.bbc.co.uk/science/humanbody/body/index_interactivebody.shtml BBC web site for A level biology http://www.s-cool.co.uk/a-level/biology S-cool A level web site http://www.becomehealthynow.com/category/body/ General coverage of A level material http://www.biologymad.com/master.html?http://www.biologymad.com/NervousSystem/NervousSystem.htm General coverage of A level material with tests

Part 3: Assessment	
Assessment Strategy	Regular formative assessment will take place throughout the module delivery to enable students to gauge their progress and learning to date. Summative (Final) assessment will be by means of a 1.5 hour written exam and submission of a 1,250 word report on a specific topic.

Identify final assessment component and element	**Component A**	
% weighting between components A and B (Standard modules only)	**A:** **70**	**B**: **30**
First Sit		
Component A (controlled conditions) **Description of each element**	**Element weighting** **(as % of component)**	
1. Exam (1.5 hour) written examination	100	
Component B **Description of each element**	**Element weighting** **(as % of component)**	
1. Report (1,250 words)	100	

Resit (further attendance at taught classes is not required)

Component A (controlled conditions) **Description of each element**	**Element weighting** **(as % of component)**
1. Exam (1.5 hour) written examination	100
Component B **Description of each element**	**Element weighting** **(as % of component)**
1. Report (1,250 words)	100

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.