UNIVERSITY of BRADFORD

Module Descriptor

Module Details	
Module Title:	Human Physiology
Module Code:	BIS4009-B
Academic Year:	2019-20
Credit Rating:	20
School:	School of Chemistry and Biosciences
Subject Area:	Biomedical Science
FHEQ Level:	FHEQ Level 4
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	**Hours**
Lectures	30
Tutorials	12
Laboratory	10.5
Directed Study	147.5

Availability	
Occurrence	**Location / Period**
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims

To facilitate the development of an understanding of the functional organisation of the human body using a 'systems' approach to normal anatomy and physiology and selected examples of pathophysiological changes and disease.

To emphasise the control and integration of cells and systems in the healthy body and outline some important disease states.

Outline Syllabus

Anatomy, physiology and pathophysiology of the gastrointestinal tract and liver. Excitation events in nerve and muscle, muscle contraction: physiology and pathophysiology. Neurotransmission and transduction processes. Introduction to the anatomy and physiology of the central and the peripheral nervous systems. Anatomy, physiology and pathophysiology of: the respiratory system (including metabolic rate); the cardiovascular system (including blood), the urinary system (including acid-base balance). Basic introduction to Pharmacology and Immunology.

Learning Outcomes

1	Describe the normal structure and explain the functioning of selected body systems and their control and to recognise gross disturbances of the systems (HCPC Standard 13)
2	Undertake practical tasks in physiology, including analysis and interpretation of data (HCPC Standard 14).
3	Work in accordance with laboratory health and safety protocols (HCPC Standards 3, 15)
4	Communicate effectively in written presentations relating to laboratory work.
5	Demonstrate effective time management (HCPC Standard 1) and responsibility for self-directed learning (HCPC Standard 3).

Learning, Teaching and Assessment Strategy

Concepts, principles and knowledge explored in lectures, supported by Anatomage and tutorial sessions (incorporating case study material) and reinforced in laboratory classes: directed computer-assisted learning (CAL) will be used to support and reinforce some formal teaching sessions. Formative MCQ tests will be made available via the virtual learning environment (VLE) at the completion of each lecture block as well as at the end of each semester, and immediate feedback will be given. Formative feedback will be given on a written laboratory report in semester 1. The formal examination will assess breadth and depth of subject knowledge and understanding.
Private study will be facilitated and supported via the use of the VLE which will provide coursework advice and feedback, and revision support.
Reassessment of failed elements will be as per the initial method of assessment. Where reassessment of the laboratory practical element is required, students will be given a data set or an opportunity to complete the laboratory practical on an alternative occasion, whichever is more appropriate.

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Examination - MCQ	Semester 2 closed book exam - MCQ (LO 1&5)	1 hour	30%
Summative	Examination - MCQ	Semester 1 closed book exam – MCQ (LO 1&5)	1 hour	30%

Formative	Coursework	Written laboratory report (LO 1-5)	-1500 words	%
Summative	Coursework	Written laboratory report (LO 1-5)	-1500 words	40%
Formative	Computerised examination	Formative online test 2 (LO 1&5)		%
Formative	Computerised examination	Formative online MCQ test (LO 1&5)		%

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html.

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.