MODULE SPECIFICATION

Part 1: Information			
Module Title	Pathophysiology		
Module Code	USSKBW-15-3	Level	Level 6
For implementation from	2020-21		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Health & Applied Sciences	Field	Applied Sciences
Department	HAS Dept of Applied Sciences		
Module type:	Standard		
Pre-requisites	Human Anatomy and Physiology 2020-21		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Overview: Pre-requisites:
Students must have taken
USSKA3-30-1 Anatomy and Physiology or equivalent

Educational Aims: See Learning Outcomes.

Outline Syllabus:
This module concentrates on the pathophysiology of the major, non-cancer health burdens that currently affect our society and are responsible for the majority of deaths, as well as some of the more topical and increasingly important causes of morbidity and mortality.

A selection of the topics listed below will be studied in detail.

Cardiovascular system and body fluid homeostasis:
Congestive heart failure, atherosclerosis and ischaemic heart disease, myocardial infarction, cardiac pacemakers, hypo- and hypertension. Renal failure, haemodialysis, oedema.

Endocrine system:
Dysfunction of the endocrine pancreas and selected hormonal systems within the hypothalamic-hypophyseal-adrenal axis.

Respiratory system:
Ventilatory control, gas exchange and transport; bronchitis, emphysema and asthma.

Teaching and Learning Methods: The contact hours are distributed as follows:
33 hours of lectures
117 hours independent learning.

The theoretical material will be delivered mostly as lectures reinforced by directed reading and tutorials. Tutorials and learning support will be offered at key times, as required. In addition to the described contact time, this material will be supported through online learning material, including technology enhanced lecture material. Blackboard will support the module, and will provide access to course documents, sample exam questions, and learning materials; there will be a focus on exploiting opportunities to use web-based support for learning.

Independent learning: Using defined TEL strategies includes hours engaged with essential reading, data handling, presentations etc. In addition to lectures students are expected to engage in independent reading where core textbooks, journals and online resources are highlighted. This extended reading will help support student for examination preparation.

Part 3: Assessment

The assessment will cover the broad curriculum via an online examination at the end of the second semester.

The essay will offer the students the opportunity to develop their skills in evidence-based argument which, in turn, will help them in their approach to final year examinations.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component B		40 %	Essay (1500 words)
Examination (Online) - Component A	✓	60 %	Online examination (24 hours)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component B		40 %	Essay (1500 words)
Examination (Online) - Component A	✓	60 %	Online examination (24 Hours)

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**
Demonstrate an in-depth knowledge of human physiology.	MO1
Discuss selected aspects of disordered physiology that underpin the major, non-cancer health burdens.	MO2
Demonstrate a critical appreciation of the relationship between fundamental physiological knowledge and its application to understanding disease states.	MO3
Critically evaluate the rationale of physiological and pharmacological approaches to the management of disordered physiology.	MO4

Contact Hours	**Independent Study Hours:**	
	Independent study/self-guided study	117
	Total Independent Study Hours:	117
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	33
	Total Scheduled Learning and Teaching Hours:	33
	Hours to be allocated	150
	Allocated Hours	150
Reading List	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/modules/usskbw-15-3.html	

Part 5: Contributes Towards
This module contributes towards the following programmes of study: Forensic Science [Sep][FT][Frenchay][4yrs] MSci 2018-19 Biomedical Science [Sep][FT][Frenchay][4yrs] MSci 2018-19 Forensic Science [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19 Biomedical Science [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19 Biological Sciences [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19 Biological Sciences [Sep][FT][Frenchay][4yrs] MSci 2018-19