




CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data					
Module Title	Pathophysiology				
Module Code	USSKBW-15-3	Level	3	Version	1
Owning Faculty	Health and Applied Sciences	Field	BBAS		
Contributes towards	BSc Biomedical Science BSc Forensic Science				
UWE Credit Rating	15	ECTS Credit Rating	7.5	Module Type	Standard
Pre-requisites	USSKA3-30-1 Anatomy and Physiology or equivalent	Co- requisites	None		
Excluded Combinations	None	Module Entry requirements	N/A		
Valid From	September 2014	Valid to	September 2020		

CAP Approval Date	28/03/2014
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Part 2: Learning and Teaching	
Learning Outcomes	<p>On successful completion of this module students will be able to: (All L.O. assessed in both A&B)</p> <ul style="list-style-type: none"> • demonstrate an in-depth knowledge of human physiology; • discuss selected aspects of disordered physiology that underpin the major, non-cancer health burdens; • demonstrate a critical appreciation of the relationship between fundamental physiological knowledge and its application to understanding disease states; • critically evaluate the rationale of physiological and pharmacological approaches to the management of disordered physiology.
Syllabus Outline	<p>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.</p> <p>A selection of the topics listed below will be studied in detail.</p> <ul style="list-style-type: none"> • Cardiovascular system and body fluid homeostasis: <ul style="list-style-type: none"> ○ Congestive heart failure, atherosclerosis and ischaemic heart disease, myocardial infarction, cardiac pacemakers, hypo- and hypertension. Renal failure, haemodialysis, oedema. • Endocrine system: <ul style="list-style-type: none"> ○ Dysfunction of the endocrine pancreas and selected hormonal

	<p>systems within the hypothalamic-hypophyseal-adrenal axis.</p> <ul style="list-style-type: none"> • Respiratory system: <ul style="list-style-type: none"> ○ Ventilatory control, gas exchange and transport; bronchitis, emphysema and asthma. 										
Contact Hours	<p>The contact hours (36) are distributed as follows:</p> <p>36 hours of lectures</p> <p>In addition to the described contact time, this material will be supported through online learning material, including technology enhanced lecture material.</p> <p>Independent learning: Using defined TEL strategies includes hours engaged with essential reading, data handling, presentations etc.</p>										
Teaching and Learning Methods	<p>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. 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.</p> <p>Independent learning: 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. The expected time given to this aspect is 114 hours.</p>										
Key Information Sets Information	<p>Key Information Sets (KIS) are produced at programme level for all programmes that this module contributes to, which is a requirement set by HESA/HEFCE. KIS are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.</p> <p><u>Key Information Set - Module data</u></p> <p><i>Number of credits for this module</i> 15</p> <table border="1" data-bbox="400 1563 1171 1758"> <thead> <tr> <th>Hours to be allocated</th> <th>Scheduled learning and teaching study hours</th> <th>Independent study hours</th> <th>Placement study hours</th> <th>Allocated Hours</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">150</td> <td style="text-align: center;">36</td> <td style="text-align: center;">114</td> <td></td> <td style="text-align: center;">150</td> </tr> </tbody> </table> <p style="text-align: right;"></p> <p>The table below indicates as a percentage the total assessment of the module which constitutes a -</p> <p>Written Exam: One unseen written exam Coursework: One 1500 word essay</p> <p>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</p>	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	150	36	114		150
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150	36	114		150							

	<p>of this module description:</p> <p>Total assessment of the module:</p> <p>Written exam assessment percentage</p> <p>Essay</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">60%</td> </tr> <tr> <td style="text-align: center;">40%</td> </tr> <tr> <td style="text-align: center;">100%</td> </tr> </table>	60%	40%	100%
60%				
40%				
100%				
Reading Strategy	<p>All students will be encouraged to make full use of the print and electronic resources available to them through membership of the University. These include a range of electronic journals and a wide variety of resources available through web sites and information gateways. The University Library's web pages provide access to subject relevant resources and services, and to the library catalogue. Many resources can be accessed remotely. Students will be presented with opportunities within the curriculum to develop their information retrieval and evaluation skills in order to identify such resources effectively.</p> <p>Any essential reading will be indicated clearly, along with the method for accessing it, e.g. students may be expected to purchase a set text, be given or sold a print study pack or be referred to texts that are available electronically, etc. This guidance will be available either in the module handbook, via the module information on Blackboard or through any other vehicle deemed appropriate by the module/programme leaders.</p> <p>If further reading is expected, this will be indicated clearly. If specific texts are listed, a clear indication will be given regarding how to access them and, if appropriate, students will be given guidance on how to identify relevant sources for themselves, e.g. through use of bibliographical databases.</p> <p>A detailed reading list will be made available through relevant channels, e.g. module handbooks, Blackboard, etc.</p>			
Indicative Reading List	<p>Guyton, A.C. & Hall, J.E. (2005) <i>Textbook of Medical Physiology</i>, 11th Ed. Philadelphia, PA: Elsevier Saunders & Co</p> <p>Porth, C.M. (2008) <i>Pathophysiology: Concepts of Altered Health States</i>, 8th Ed. Philadelphia, PA: Lippincott Williams & Wilkins</p> <p>Underwood, J.C.E. ed. (2004) <i>General and Systemic Pathology</i>, 4th ed. Edinburgh: Churchill Livingstone.</p> <p>Journals:</p> <p>Annual Review of Pharmacology</p> <p>Annual Review of Physiology</p> <p>Physiological Reviews</p>			

Part 3: Assessment

Assessment Strategy	<p>The assessment will cover the broad curriculum via an examination at the end of the second semester.</p> <p>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.</p>
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Identify final assessment component and element		
% weighting between components A and B (Standard modules only)	A: 60%	B: 40%

First Sit	
Component A (controlled conditions) Description of each element	Element weighting (as % of component)
1. Examination (3hrs)	100%
2.(etc)	
Component B Description of each element	Element weighting (as % of component)
1. Essay (1500 words)	100%
2.(etc)	

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) Description of each element	Element weighting (as % of component)
1. Examination (3hrs)	100%
2.(etc)	
Component B Description of each element	Element weighting (as % of component)
1. Essay (1500 words)	100%
2.(etc)	
<p>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.</p>	