University of the West of England
BRISTOL

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Human Health and Disease					
Module Code	USSKAN-30-2		Level	2	Version	1
Owning Faculty	Health and Applied Sciences		Field	BBAS		
Contributes towards	BSc Biological Sciences					
UWE Credit Rating	30	ECTS Credit Rating	15	Module Type	Standard	
Pre-requisites	USSKA3-30-1 Anatomy and Physiology		Co- requisites			
Excluded Combinations			Module Entry requirements			
Valid From	September 2015		Valid to	September 2021		

CAP Approval Date	28/03/2014

Part 2: Learning and Teaching	
Learning Outcomes	On successful completion of this module students will be able to: • Discuss the causes and consequences of diseases associated with abnormal immune function (component A). • Understand the impact of hereditary disorders and neoplasias on human health (component A). • Demonstrate knowledge and understanding of diseases of haematopoiesis and haemostasis (component A). • Understand the role of exercise and nutrition in the maintenance of a healthy state (component A). • Demonstrate understanding of how abnormal function of human organ systems contributes to human disease (component A). • Demonstrate awareness of the transition from a healthy to disease state (component A, component B, element 1) • Analyse, record and appropriately present data derived from laboratory study (component A and component B, element 2)
Syllabus Outline	• **Immunology:** inflammatory disorders, autoimmune disorders and disease states, immunodeficiency (including AIDS)**.** • **Haematology:** the haematology of normal and disease states including haemoglobinopathies, thalassaemias, anaemias, leukaemias and thrombosis.

	• **Inherited conditions:** disease states caused by autosomal, allosomal, mitochondrial and polygenic disorders. • **Exercise and health:** the role of physical activity in the cause, prevention and treatment of chronic human disease including those of the cardiovascular and endocrine systems. • **Nutrition and health:** the role of physical activity in the cause, prevention and treatment of chronic human disease including those of the cardiovascular and endocrine systems. • **Organ systems:** disease states affecting the cardiovascular system, the skeletal system, the renal system, the endocrine system, the digestive system, and the nervous system. • **Neoplasias:** an overview of the pathogenesis and significance of the most common neoplasias including breast, lung, prostate, colon and skin cancers.
Contact Hours	• Scheduled contact hours will comprise: 12 x 3 hour practicals = 36 hours. 12 x 2 hour lectures = 24 hours. 12 x 1 hour lectures = 12 hours.
Teaching and Learning Methods	• Scheduled learning is by a structured programme of lectures, and practical sessions. Lectures are designed to deliver specialist subject knowledge along with an overview of the topic and relevant context in terms of human health. • Practical sessions will encourage experiential learning whilst supporting the specialist subjects introduced in lectures. Students will have the opportunity to develop their practical and experimental planning skills, will gain experience in data handling and will be required to maintain and complete a contemporaneous laboratory record as part of the module assessment strategy (B2) • Student learning will be supported through the University Online Learning Environment (OLE; Blackboard) through provision of/direction to appropriate peer-reviewed publications to guide independent study. The OLE will be utilised to direct learners to relevant online resources. • Students are expected to undertake 72 hours of scheduled learning and 228 hours of independent learning **Scheduled learning** includes lectures and practicals. **Independent learning** includes hours engaged with essential reading, assignment and examination preparation. An indicative breakdown of time required for the different aspects of independent learning is as follows: • **Essential reading** to support scheduled learning: 135 hours. • **Coursework** preparation and completion: 30 hours (B1), 18 hours (B2). • **Examination** preparation and revision: 45 hours.

Key Information Sets Information	

Number of credits for this module				30

Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours
300	72	228	0	300

The table below indicates as a percentage the total assessment of the module which constitutes a -

Written Exam: Unseen written exam, open book written exam, In-class test
Coursework: Written assignment or essay, report, dissertation, portfolio, project
Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam

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	50%
Coursework assessment percentage	50%
	100%

Reading Strategy	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. 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.
Indicative Reading List	Ahmed,N. Dawson,M. Smith, C. & Wood, E. (2007) *Biology of Disease*. New York: Taylor & Francis. Lakhani, S.R., Dilly,S.A., Finlayson, C.J. & Dogan, A. *Basic Pathology.* London: Hodder Arnold. Phillips,J., Murray,P. & Kirk, P. *The Biology of Disease.* Oxford: Blackwell Science.

Part 3: Assessment

Assessment Strategy	The controlled component is a written exam. The exam will be 3 hours duration which is consistent with the Department's assessment strategy for Level 2 modules. This assessment will provide students with an opportunity to demonstrate both their knowledge on a broad range of topics through a series of short answer questions, and more in-depth knowledge though a selection of medium length questions. This assessment will test a range of the learning outcomes and will provide a valuable learning experience through recalling and demonstrating knowledge which will be of benefit when progressing to final year modules. The coursework comprises two elements: The first is a researched report which will require students to complete a 1500 word written account on a contemporary topic concerning the transition from healthy to disease states. This assessment will test a range of learning outcomes and will provide a valuable learning experience through applying knowledge and supporting this through the published literature. The second element is a contemporaneous laboratory record, which students will be required to complete and maintain as they work through the practical programme. This will require data collection, handling and interpretation, experimental planning and the application of learning from the lecture material in experimental design in addition to discussion of results. The ability to maintain an accurate laboratory record is a fundamental skill for biological scientists.

Identify final assessment component and element		
% weighting between components A and B (Standard modules only)	**A:** **50**	**B**: **50**

First Sit	
Component A (controlled conditions) **Description of each element**	**Element weighting** **(as % of component)**
1. Written examination (3 hours)	100%
Component B **Description of each element**	**Element weighting** **(as % of component)**
1. Report (1500 words)	60
2. Laboratory report.	40

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) **Description of each element**	**Element weighting** **(as % of component)**
1. Written examination (3 hours)	100
Component B **Description of each element**	**Element weighting** **(as % of component)**
1. Essay (2000 words)	75%
2. Data interpretation exercise.	25%
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.	