



## MODULE SPECIFICATION

Part 1: Information			
Module Title	Human Health and Disease		
Module Code	USSKAN-30-2	Level	Level 5
For implementation from	2020-21		
UWE Credit Rating	30	ECTS Credit Rating	15
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
<p><b>Overview:</b> Pre-requisite: Students must have taken USSKA3-30-1: Anatomy and Physiology</p> <p><b>Educational Aims:</b> See Learning Outcomes.</p> <p><b>Outline Syllabus:</b> The syllabus includes:</p> <p>Immunology: inflammatory disorders, autoimmune disorders and disease states, immunodeficiency (including AIDS).</p> <p>Haematology: the haematology of normal and disease states including haemoglobinopathies, thalassaemias, anaemias, leukaemias and thrombosis.</p> <p>Inherited conditions: disease states caused by autosomal, allosomal, mitochondrial and polygenic disorders.</p> <p>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.</p> <p>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.</p>

## STUDENT AND ACADEMIC SERVICES

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.

**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 66 hours of scheduled learning and 234 hours of independent learning.

Scheduled learning includes lectures and practicals (online and on campus).

Independent learning includes hours engaged with essential reading, assignment and examination preparation.

### Part 3: Assessment

Component A will be an online exam, with a 24 hour window for completion. 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 through 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.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component B		30 %	1500 word report
Laboratory Report - Component B		20 %	Laboratory report
Examination (Online) - Component A	✓	50 %	Online examination (24 hours)

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Resit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B		37.5 %	2000 word essay
Set Exercise - Component B		12.5 %	Data interpretation exercise
Examination (Online) - Component A	✓	50 %	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:		
	<b>Module Learning Outcomes</b>		<b>Reference</b>
	Discuss the causes and consequences of diseases associated with abnormal immune function		MO1
	Understand the impact of hereditary disorders and neoplasias on human health		MO2
	Demonstrate knowledge and understanding of diseases of haematopoiesis and haemostasis		MO3
	Understand the role of exercise and nutrition in the maintenance of a healthy state		MO4
	Demonstrate understanding of how abnormal function of human organ systems contributes to human disease		MO5
	Demonstrate awareness of the transition from a healthy to disease state		MO6
	Analyse, record and appropriately present data derived from laboratory study		MO7
Contact Hours	<b>Independent Study Hours:</b>		
	Independent study/self-guided study		234
	<b>Total Independent Study Hours:</b>		234
	<b>Scheduled Learning and Teaching Hours:</b>		
	Face-to-face learning		66
	<b>Total Scheduled Learning and Teaching Hours:</b>		66
	<b>Hours to be allocated</b>		300
	<b>Allocated Hours</b>		300
Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p><a href="https://uwe.rl.talis.com/modules/usskan-30-2.html">https://uwe.rl.talis.com/modules/usskan-30-2.html</a></p>		

**Part 5: Contributes Towards**

This module contributes towards the following programmes of study:

Biological Sciences {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19

Biological Sciences {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19

Biological Sciences {Foundation} [Sep][SW][Frenchay][6yrs] MSci 2018-19

Biological Sciences {Foundation} [Sep][FT][Frenchay][5yrs] MSci 2018-19