Module Specification

Pathophysiology

Version: 2025-26, v4.0, Approved

Contents

Part 1: Information

Module title: Pathophysiology

Module code: USSKBW-15-3

Level: Level 6

For implementation from: 2025-26

UWE credit rating: 15

ECTS credit rating: 7.5

College: College of Health, Science & Society

School: CHSS School of Applied Sciences

Partner institutions: None

Field: Applied Sciences

Module type: Module

Pre-requisites: Human Anatomy and Physiology 2025-26, Human Biological Systems 2025-26

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module concentrates on the pathophysiology of the major, non-cancer/non-infectious 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 related to physiology and the isolated or systemic effects to health.

Pre-requisites: Students must have passed Human Biological Systems USSJRU-30-1 or Human Anatomy and Physiology USSKA3-30-1 before starting this module.

Features: Not applicable

Educational aims: The focus of this module, beyond the knowledge and understanding of the diseases covered and discussed, is that of consideration of the whole patient and the impact of impaired or chronic disease on systemic physiology. It aims to instil in its learners, an appreciation, consideration, and evaluation of the physiological ramifications, adaptations, and modifications of both the anatomy and the physiology of the body in responses to disease; beyond the cellular, molecular, and signalling aspects of disease manifestation normally the focus of applied sciences modular content

Outline syllabus: This module concentrates on the pathophysiology of the major, non-cancer/non-infectious 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 related to physiology and the isolated or systemic effects to health

Diseases and systems typically included in this module are (but are not limited to and will change annually depending on changes in global trends):

Global burden of disease
Cardiovascular system and associated pathologies (heart attack, stroke, hypertension, congestive heart failure)
Respiratory system including obstructive and restrictive lung diseases
Neurological pathology including Alzheimer’s, dementia, Parkinsons, MS
Diabetes
Gastrointestinal system including ulcerative colitis and Crohn's disease
Drugs of abuse
Bladder pathology
Metabolic and endocrine disorders

Part 3: Teaching and learning methods

Teaching and learning methods: This module is delivered as a series of interactive lectures and tutorials.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Demonstrate the ability to critically evaluate the rationale of physiological and pharmacological approaches to the diagnosis, management and treatment of disordered physiology that underpins the major non-cancerous/non-infectious disease states in relation to healthy anatomy and physiology.

MO2 Demonstrate an evaluative approach to the relationship between fundamental physiological knowledge and its application to understanding disease states, including intra-system relationships and their contribution to overall health and ill health.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/usskbw-15-3.html

Part 4: Assessment

Assessment strategy: Assessment: Examination (Online, 2 hours)
The assessment for this module is a timed online assignment, which covers the broad curriculum. Students will answer a series of Variable Online Questions (VOQs) that will assess their ability to think critically and to demonstrate their understanding of the interplay and effects of pathological processes on physiological function. These will be clinically themed to highlight the module theme and importance of the "the whole patient" and will require use of all syllabus systems

across these questions, either as standalone questions or questions that include multiple systems or disease processes.

Assessment tasks:

Examination (Online) (First Sit)
Description: Examination (Online) (2 hours)
Weighting: 100 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2

Examination (Online) (Resit)
Description: Examination (Online) (2 hours)
Weighting: 100 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Biological Sciences [Frenchay] BSc (Hons) 2023-24

Biological Sciences [Frenchay] MSci 2023-24

Biomedical Science [Frenchay] BSc (Hons) 2023-24

Biomedical Science [Frenchay] MSci 2023-24

Forensic Science [Frenchay] BSc (Hons) 2023-24

Forensic Science [Frenchay] MSci 2023-24

Biomedical Science [Sep][PT][Frenchay][6yrs] BSc (Hons) 2020-21

Biomedical Science [Sep][PT][Frenchay][6yrs] BSc (Hons) 2021-22

Biomedical Science {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2021-22

Biomedical Science [Sep][PT][Frenchay][8yrs] MSci 2020-21

Biomedical Science [Sep][PT][Frenchay][8yrs] MSci 2021-22

Biomedical Science {Foundation} [Sep][SW][Frenchay][6yrs] MSci 2021-22

Forensic Science {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2021-22

Forensic Science {Foundation} [Sep][SW][Frenchay][6yrs] MSci 2021-22

Forensic Science {Foundation} [Frenchay] BSc (Hons) 2022-23

Forensic Science [Frenchay] BSc (Hons) 2022-23

Biological Sciences {Foundation} [Frenchay] BSc (Hons) 2022-23

Biological Sciences [Frenchay] BSc (Hons) 2022-23

Biological Sciences {Foundation} [Sep][SW][Frenchay][6yrs] MSci 2021-22

Forensic Science {Foundation} [Frenchay] MSci 2022-23

Forensic Science [Frenchay] MSci 2022-23

Biological Sciences {Foundation} [Frenchay] MSci 2022-23

Biological Sciences [Frenchay] MSci 2022-23

Biological Sciences {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2021-22

Biomedical Science [Frenchay] BSc (Hons) 2022-23

Biomedical Science {Foundation} [Frenchay] BSc (Hons) 2022-23

Biomedical Science [Frenchay] MSci 2022-23

Biomedical Science {Foundation} [Frenchay] MSci 2022-23