



## **Module Specification**

### **Human Physiology**

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## Part 1: Information

**Module title:** Human Physiology

**Module code:** UZYYKQ-30-2

**Level:** Level 5

**For implementation from:** 2024-25

**UWE credit rating:** 30

**ECTS credit rating:** 15

**Faculty:** Faculty of Health & Applied Sciences

**Department:** HAS School of Health and Social Wellbeing

**Partner institutions:** Hainan Medical University

**Field:** Allied Health Professions

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** The module will provide you with an introduction to the science that underpins human health; from cells through to systems that regulate everyday functions. You will explore the core concepts of human biochemistry and physiology in order to underpin your understanding of the normal internal environment of the human body. You will also be introduced to the fundamentals of pathophysiology and pathology.

**Features:** Not applicable

**Educational aims:** See Learning Outcomes.

**Outline syllabus:** Neuroanatomy and physiology, somatic and autonomic nervous system, structural organization of the central nervous system (CNS) and function of individual regions, organization and function of the peripheral nervous system (PNS), Sensory and motor systems. Selected disorders of the nervous system as examples.

Cardiovascular system: cardiac muscle and intrinsic properties of the heart; extrinsic control; vascular system and peripheral resistance; regulation of cardiovascular parameters such as blood pressure. How the physiological processes described are evoked and/or altered during various abnormal cardiovascular states.

Respiration: mechanics of lung ventilation; neural and chemical control; gas exchange and transport. Selected disorders of the respiratory system as examples.

Metabolism, renal and liver function. Neural and endocrine control of body function. Fluid, electrolyte and acid-base balance. Selected disorders will be used to illustrate renal and liver dysfunction. Disorders of the endocrine system will be used to illustrate the role of hormones in homeostatic systems.

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** You will learn about the different body structures and function through a series of lectures and practical sessions.

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

**MO1** Explain the principles of the major biochemical and physiological systems (as in the condition of health), with particular reference to homeostasis, and the relationship between structures and functions.

**MO2** Demonstrate knowledge of human pathophysiology, including abnormal functional and metabolic changes of the disease process.

**MO3** Explain the fundamentals of pathology including the aetiology, pathogenesis, pathological changes (including functional metabolism and morphological structure), outcome and regression of disease.

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/index.html) via the following link <https://uwe.rl.talis.com/index.html>

## **Part 4: Assessment**

**Assessment strategy:** The assessment is an exam. This assessment will provide students with an opportunity to demonstrate both their knowledge on a broad range of topics through a series of multiple choice questions, and more in-depth knowledge through a selection of medium length questions. This assessment will test the full range of learning outcomes and will provide a valuable learning experience through recalling, applying and demonstrating knowledge.

Students are provided with formative feed-forward for their exam through a revision and exam preparation session prior to the exam and through the support materials supplied through Blackboard.

**Assessment tasks:**

**Examination** (First Sit)

Description: 2 hours

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

**Examination (Resit)**

Description: Online examination (24 hours)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

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