Module Specification

Human Anatomy and Physiology

Version: 2025-26, v4.0, Approved

Contents

Part 1: Information

Module title: Human Anatomy and Physiology

Module code: USSKA3-30-1

Level: Level 4

For implementation from: 2025-26

UWE credit rating: 30

ECTS credit rating: 15

College: College of Health, Science & Society

School: CHSS School of Applied Sciences

Partner institutions: None

Field: Applied Sciences

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: Yes

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: An introduction to the structure and function of the human body across all major body systems, including support and visceral systems and mechanisms of action and homeostasis.

Features: This module is available as CPD.

Educational aims: Human Anatomy and Physiology has been designed so that students will develop an understanding of the structure and function and physiological control mechanisms of the major components of the human body.

Outline syllabus: Anatomical terminology as it relates to body posture and describing orientation of organs/limbs in a clinical setting.

Major skeletal structure, including an introduction to bone growth and development.

Connective tissues: Introduction into cell types that make up the various connective tissues, and the function of connective tissue in the human body.

Major muscle groups, including their relationship to connective tissues.

Histological structure of endocrine, nerve and muscle tissues.

Endocrinology; structure and function of the key endocrine organs and its relationship to homeostasis and normal function.

Introduction to the Nervous System to include gross anatomy of the brain and spine. The electrochemical nature of nervous signals. Membrane and action potentials, nerve conduction, synaptic transmission.

An introduction to the pharmacological nature of the autonomic nervous system. The neurotransmitters and receptors involved in autonomic function.

Structure of the heart and its associate with major blood vessels, including lung structure and it's relationship to the heart and associated function.

Respiratory system: respiration and its control, gas exchange and transport.

The structure of the organs that make up the GI system, with focus on adaptations of each to carry out specific functions relating to stages of digestion.

The structure of the kidneys and bladder, including nervous control of micturition.

Structure and function of the male and female reproductive system.

The process of human development from fertilisation to adulthood.

Part 3: Teaching and learning methods

Teaching and learning methods: The module is delivered as a blend of interactive lectures, and linked practical classes.

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

MO1 Describe the structure and function of the major components of the tissues, organs, and systems covered by the current syllabus content, including correct use of appropriate fundamental anatomical terminology.

MO2 Explain the principles of physiological control mechanisms related to the anatomy and physiology of key body systems, including relationships between the function and location of key systems where appropriate.

MO3 Demonstrate practical skills in data observation, collection and handling related to anatomy and physiology.

MO4 Carry out and demonstrate understanding of authentic or simplified scientific or clinical procedures related to physiology using the relevant equipment in a laboratory environment.

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 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/usska3-30-1.html

Part 4: Assessment

Assessment strategy: Assessment 1: Practical Skills Assessment
Assessment 1 will primarily assess practical knowledge and skills relevant to the lectures, by way of an online portfolio consisting of multiple mini-tasks covering the breadth and depth of the practical sessions.

This assessment is designed to encourage engagement with the practicals and the necessary reading material in a continuous fashion, and to encourage improved attendance at said practicals.

Assessment 2: Online Assignment
Assessment 2 comprises MCQ or Varied Online Question (VOQ) style questions covering theoretical (lecture based) knowledge and understanding. The online assignment will be broken down into topic specific sections to guarantee adequate coverage of all key areas to map to the learning outcomes. The delivery pattern of these assignments is unique in that 6 are sat across the academic year on a monthly basis. Questions are randomly drawn from a bank, thus ensuring engagement with material from across the syllabus at all times of the year. Of the 6 assignments sat, the highest scoring 5 count towards the final assessment grade. Students are able to identify which areas they scored better or worse on before exiting the assignment, thus informing their revision strategy for the remaining assignments and allowing them to improve their overall score.

Formative assessment will also be available throughout both semesters by way of online formative quizzes that are designed to give the student's the opportunity to test their own understanding of the lecture material without the final grade counting towards their overall mark. It does however present both student and academic with the chance to see that grade and adjust teaching and learning accordingly depending on cohort performance.

Assessment tasks:

Practical Skills Assessment (First Sit)
Description: Online Portfolio
Weighting: 50 %
Final assessment: No
Group work: No
Learning outcomes tested: MO3, MO4

Online Assignment (First Sit)
Description: Online tests
Weighting: 50 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2

Practical Skills Assessment (Resit)
Description: Online Portfolio
Weighting: 50 %
Final assessment: No
Group work: No
Learning outcomes tested: MO3, MO4

Online Assignment (Resit)
Description: Online tests
Weighting: 50 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Biomedical Science {Foundation} [Frenchay] - WITHDRAWN MSci 2024-25

Biomedical Science {Foundation} [Frenchay] BSc (Hons) 2024-25

Biological Sciences {Foundation} [Frenchay] BSc (Hons) 2024-25

Biological Sciences {Foundation} [Frenchay] - WITHDRAWN MSci 2024-25

Biomedical Science {Foundation} [Frenchay] BSc (Hons) 2024-25

Biomedical Science [Frenchay] BSc (Hons) 2025-26

Biological Sciences [Frenchay] BSc (Hons) 2025-26

Biomedical Science [Frenchay] - WITHDRAWN MSci 2024-25

Biomedical Science [Frenchay] BSc (Hons) 2024-25

Biomedical Science [Frenchay] BSc (Hons) 2024-25

Biomedical Science [Frenchay] BSc (Hons) 2025-26