



Module Specification

Human Anatomy and Physiology

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Part 1: Information

Module title: Human Anatomy and Physiology

Module code: USSKA3-30-1

Level: Level 4

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Health & Applied Sciences

Department: HAS Dept 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: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes.

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: See Assessment

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

MO1 Use and understand basic anatomical terminology

MO2 Explain the principles of physiological control mechanisms related to the anatomy and physiology of key body systems

MO3 Describe the differences between different connective tissue types and relate key properties to their function

MO4 Identify major bones of the human skeleton, including key surface landmarks

MO5 Describe the position, orientation, and gross anatomy of major organs to their respective systems

MO6 To explain relationships between the function and location of key systems

MO7 Describe the structure and function of the endocrine and nervous systems

MO8 Understand the sensory and locomotor aspects of the nervous system

MO9 Describe the principles of diagnostic imaging and show a working knowledge of simple interpretation

MO10 Demonstrate practical skills in data observation, collection and handling, and relate outcomes to the relevant physiology

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 234 hours

Face-to-face learning = 66 hours

Total = 300

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/usska3-30-1.html) via the following link <https://uwe.rl.talis.com/modules/usska3-30-1.html>

Part 4: Assessment

Assessment strategy: 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 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:

Portfolio (First Sit)

Description: Online Portfolio

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO10, MO2, MO4, MO5, MO6, MO9

Online Assignment (First Sit)

Description: Online tests

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

Portfolio (Resit)

Description: Online Portfolio

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO10, MO2, MO4, MO5, MO6, MO9

Online Assignment (Resit)

Description: Online tests

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Biological Sciences [Frenchay] MSci 2023-24

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

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

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

Biomedical Science [Frenchay] MSci 2023-24

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

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

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

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

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

Biomedical Science [Frenchay] MSci 2023-24

Biomedical Science [Frenchay] MSci 2022-23

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