



Module Specification

Anatomy and Physiology

Version: 2023-24, v3.0, 12 Jun 2023

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Part 1: Information

Module title: Anatomy and Physiology

Module code: USSJT8-30-1

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: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: This module provides the learner with essential knowledge and understanding of the anatomy and physiology of the human body.

Outline syllabus: The syllabus includes:

Anatomical terminology, cross sectional anatomy & histology

Cells to systems, homeostasis and an introduction to the skeletal system

Muscle structure and function, and major muscle groups

The brain and nervous system

Nerves and synapses

Cardiovascular system & blood pressure

Respiratory system and pressure and ventilation

Human development & reproductive systems

Renal & urinary anatomy and physiology

Gastrointestinal and hepatobiliary

Endocrinology

Sensory & Sleep Physiology

Part 3: Teaching and learning methods

Teaching and learning methods: There will be 3 weeks of contact time at UWE in 3 x 1 week blocks. Included in each block week are laboratory workshops, lectures and tutorials. The contact time will equate to approximately 12 hours per block (a total of 36 hours).

In addition to the allocated hours on campus learning, students will engage in synchronous and asynchronous online learning. This will comprise a total of approximately 36 hours of online engagement through a combination of lectures, synchronous online tutorials, synchronous and asynchronous discussions, online quizzes, and collaborative group work.

Theoretical material within the module will be presented to the students in the form of regular lectures throughout each of the semesters in the academic year. During those times of work based learning, these lectures will be delivered online and involve a number of technological enhancements. The learning of lecture content will be reinforced through time spent in independent learning by the directed reading of recommended texts and through the use of technology enhanced learning resources that will be provided online. This online learning and engagement will be delivered through several avenues:

- Synchronous online tutorials in protected learning time where the student will contribute/attend an online activity appropriate to the content at the time at which the academic will be present online to facilitate and lead this scheduled/timetabled session. This tutorial will be themed/planned.

- Asynchronous discussions in the student's own time (or during protected time where permitted and appropriate) where they will engage/collaborate with other students on the course or in specified groups, and in which the academic is permitted to moderate where necessary, but is not expected to contribute.

- Synchronous surgery sessions timetabled for a specific time in which the academic will be available online to answer live questions via discussion boards/blogs/collaborate or to respond to questions posted/asked prior to the session.

- Interactive, online formative quizzes made available either following a particular

package of knowledge exchange/learning, or in specified sessions/time periods.

- Lectures delivered online through a combination of one or more of the following:
visual/audio/interactivity/personal formative assessment

A number of relevant practical sessions will be incorporated during the campus based blocks in addition to the work based learning that must be achieved under supervision by a workplace supervisor. Practical sessions will both drive hands on learning and the acquisition of technical skills at both an individual and group working level.

The remainder of the independent learning time allocated to the module should be spent preparing written assessments for submission [B1, B2], and undertaking revision for the exams [A1, A2].

Scheduled learning includes lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; external visits; work based learning; supervised time in studio/workshop.

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below. Scheduled sessions may vary slightly depending on the module choices you make.

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 homeostasis and recognise homeostatic control mechanisms
- MO3** Describe the different tissue types at the cellular and tissues levels
- MO4** Identify major bones of the human skeleton, and their function
- MO5** To be able to relate the position, orientation, and gross anatomy of major organs to their respective systems
- MO6** To understand the structure and physiological function of key core systems, such as respiratory, cardiovascular, endocrine, reproductive, gastrointestinal, neurological, renal, hepatic
- MO7** Demonstrate practical skills in data observation, collection, handling and report writing
- MO8** Demonstrate a broad knowledge of anatomy and physiology and be able to apply that knowledge to clinically relevant scenarios
- MO9** Understand and discuss the histological differences of key systems

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/modules/ussjt8-30-1.html) via the following link <https://uwe.rl.talis.com/modules/ussjt8-30-1.html>

Part 4: Assessment

Assessment strategy: Assessment 1: Report

The ability of the apprentices to write scientifically and analyse data will be assessed

under the first element in the form of a practical report.

Assessment 2: Set Exercise (Integrated Assignment)

The integrated assignment is designed to test the apprentices' ability to critically discuss a scientific topic.

Assessment 3: Set Exercise

The set exercise will provide apprentices with an opportunity to demonstrate their knowledge on a broad range of topics.

Formative feedback is available to apprentices throughout the module through group discussions, and in workshops. Apprentices are provided with formative feedback for their final set exercise through a revision and preparation session.

Assessment tasks:

Report (First Sit)

Description: Practical report

Weighting: 30 %

Final assessment: No

Group work: No

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

Set Exercise (First Sit)

Description: Integrated assignment

Weighting: 30 %

Final assessment: No

Group work: No

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

Set Exercise (First Sit)

Description: Set Exercise

Weighting: 40 %

Final assessment: Yes

Group work: No

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

Report (Resit)

Description: Practical report

Weighting: 30 %

Final assessment: No

Group work: No

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

Set Exercise (Resit)

Description: Integrated assignment

Weighting: 30 %

Final assessment: No

Group work: No

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

Set Exercise (Resit)

Description: Set Exercise

Weighting: 40 %

Final assessment: Yes

Group work: No

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

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Healthcare Science (Radiation Physics) {Apprenticeship-UWE} [Frenchay] BSc (Hons) 2023-24

Duplicate of Healthcare Science (Cardiac Physiology) {Apprenticeship-UWE} [Frenchay] BSc (Hons) 2023-24

Healthcare Science (Cardiac Physiology) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2023-24

Healthcare Science (Rehabilitation Engineering) {Apprenticeship-UWE} [Frenchay]
BSc (Hons) 2023-24

Healthcare Science (Radiotherapy Physics) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2023-24

Healthcare Science (Radiation Engineering) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2023-24

Healthcare Science (Renal Technology) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2023-24

Healthcare Science (Medical Engineering) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2023-24

Healthcare Science (Nuclear Medicine) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2023-24

Healthcare Science (Neurophysiology) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2023-24

Healthcare Science (Respiratory & Sleep Physiology) {Apprenticeship-UWE}
[Frenchay] BSc (Hons) 2023-24

Duplicate of Healthcare Science (Cardiac Physiology) {Apprenticeship-UWE}
[Frenchay] BSc (Hons) 2023-24

Healthcare Science (Cardiac Physiology) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Respiratory & Sleep Physiology) {Apprenticeship-UWE}
[Frenchay] BSc (Hons) 2024-25

Healthcare Science (Neurophysiology) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Nuclear Medicine) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Radiation Physics) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Radiotherapy Physics) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Duplicate of Healthcare Science (Medical Engineering) {Apprenticeship-UWE}
[Frenchay] BSc (Hons) 2023-24

Healthcare Science (Medical Engineering) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Radiation Engineering) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Rehabilitation Engineering) {Apprenticeship-UWE} [Frenchay]
BSc (Hons) 2024-25

Healthcare Science (Renal Technology) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25