



Module Specification

Anatomy and Physiology for Optometry

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Part 1: Information

Module title: Anatomy and Physiology for Optometry

Module code: UZYY4S-30-1

Level: Level 4

For implementation from: 2021-22

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Health & Applied Sciences

Department: HAS Dept of Allied Health Professions

Partner institutions: None

Delivery locations: Glenside Campus

Field: Allied Health Professions

Module type: Standard

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 will provide knowledge of fundamental biosciences necessary to understand clinical aspects of optometry.

Outline syllabus: It will cover the structure and purpose of major body systems as they are relevant to ophthalmology, and the structure and function of the visual system from anterior eye to brain. Ocular haemodynamics will also be covered.

Students will learn the essential principles of genetics, and how various traits of the ocular system are inherited, plus principles of pathology and microbiology. Some common pathologies of the eye will also be covered.

The module will also provide knowledge of development of the visual system in utero.

Part 3: Teaching and learning methods

Teaching and learning methods: The module will typically comprise of weekly contact lectures and online learning.

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

MO1 Demonstrate knowledge of the anatomy and physiology of the visual system

MO2 Describe the basic principles of genetics, pathology and microbiology and the basic principles of cell membrane physiology and cell biology

MO3 Demonstrate knowledge of the structure and function of major body systems

MO4 Understand the application of body systems to clinical ophthalmology

MO5 Exhibit knowledge of embryonic development of the visual system and eyes

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 168 hours

Face-to-face learning = 132 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/uzyy4s-30-1.html) via the following link <https://uwe.rl.talis.com/modules/uzyy4s-30-1.html>

Part 4: Assessment

Assessment strategy: Component A is a 1 hour written exam, to be held part way through the module delivery. The exam will include MCQs and SAQs.

Rationale: This will assess the underpinning theoretic aspects of the module relating to major body systems, cell pathology and genetics as per the learning outcomes. This will allow students to be assessed efficiently on factual knowledge as well as exploring more depth and application through longer answers.

Component B is a 2 hour written exam, to be held at the end of the module. The exam will include MCQs and SAQs.

Rationale: This will assess the remaining learning outcomes of the module relating to greater depth in the visual system, relevant pathologies, and embryonic development (i.e. applied anatomy and physiology for the subject area). This will allow students to be assessed efficiently on factual knowledge as well as exploring more depth and application through longer answers.

Formative assessment: Students will be able to engage in formative quizzes and exam opportunities throughout the module.

Assessment components:

Examination - Component A (First Sit)

Description: Written examination (1 hour)

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3

Examination - Component B (First Sit)

Description: Written examination (2 hours)

Weighting: 70 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO4, MO5

Examination - Component A (Resit)

Description: Written examination (1 hour)

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested:

Examination - Component B (Resit)

Description: Written examination (2 hours)

Weighting: 70 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study: