Prifysgol Wrecsam
Wrexham University

Module specification

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Module Code	AHP401
Module Title	Introduction to Life Sciences
Level	4
Credit value	20
Faculty	Social and Life Sciences
HECoS Code	100350
Cost Code	APA, AOD, GALT
Pre-requisite module	N/A

Programmes in which module to be offered

Programme title	Core/Optional/Standalone
BSc (Hons) Paramedic Science	Core
BSc (Hons) Operating Department Practice	Core
BSc (Hons) Speech and Language Therapy	Core

Breakdown of module hours

Learning and teaching hours	36 hrs
Placement tutor support hours	0 hrs
Supervised learning hours e.g. practical classes, workshops	0 hrs
Project supervision hours	0 hrs
Active learning and teaching hours total	**36** hrs
Placement hours	0 hrs
Guided independent study hours	164 hrs
Module duration (Total hours)	200 hrs

Module aims

To introduce the structures and functions of the human body across the lifespan and the effects that disease, illness, injury, and well-being have on normal body functions.

Module Learning Outcomes

At the end of this module, students will be able to:

1	Recognise medical terminology and key principles of life science associated with healthcare
2	Identify the anatomical structures and components of the human body
3	Describe the physiological functions and mechanisms of the human body
4	Summarise the human growth process and developmental changes across the lifespan
5	Explain the pathophysiological functional changes that occur due to the most common illnesses, diseases, injuries, and well-being conditions across the life span

Assessment

Indicative Assessment Tasks:
This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

Formative Assessment:

The module's formative assessment and feedback opportunities will be outlined in the assessment strategy in the module handbook. Students will undertake formative assessments within the first four to six weeks of the module.

Mini tests and quizzes will be used during teaching sessions and online to allow you to review your understanding of the topics covered. These mini tests and quizzes will be in a similar format to the summative assessment to allow you to become familiar with the structure of the exam.

Summative Assessment:

All the learning outcomes for this module will be assessed during a one hour in-class test. There will be additional time for those with learning support statements.

Assessment number	Learning Outcomes to be met	Type of assessment	Duration/Word Count	Weighting (%)	Alternative assessment, if applicable
1	1 - 5	In-class test	1 hour	100	N/A

There is one summative assessment for this module which is an examination. This is a core module and therefore an overall pass of the module is required for progression within the

course. You will need to achieve 40% or above to receive a passing mark for the exam. The exam has a 100% weighting and therefore the mark you achieve in your exam will be the overall grade for the module.

If you are unsuccessful at achieving a passing grade on your first attempt, the standard resit opportunities are granted. After reassessment the overall grade for any resit exams will be capped at 40% which will be your overall grade for the module, unless there are approved Extenuating Circumstances.

Derogations

- Compensation of marginally failed modules is not permitted
- Condonement of failed modules is not permitted
- Therefore a minimum mark of 40% must be achieved in order to pass the module

Learning and Teaching Strategies

This module introduces you to basic scientific principles, the human body, and human growth and development across the lifespan. You will study anatomy - identification and description of the body structures - and physiology - the functions and activities of the body. You will also learn about several commonly encountered health conditions, their pathophysiology - the functional changes that accompany a particular illness or injury - and the effect they can have on health status at all ages.

Your learning will be based on a spiral curriculum approach where the early focus of teaching in this module is the basic knowledge of life sciences. Further details at a more sophisticated level will be introduced, and subject principles reinforced, as you progress throughout your course.

The module will be delivered interprofessionally where students from different healthcare disciplines learn together to develop interpersonal and teamworking skills and gain knowledge of how other professionals work.

A blended learning approach, a balance between classroom elements and digitally enabled (online) activity, will be used during the delivery of this module. Face-to-face sessions and online educational materials, using the University's Virtual Learning Environment (VLE) – Moodle, will be combined to allow more flexibility over the time, place, and pace of your study.

There will be directed pre-session materials that will prepare you for the synchronous learning that takes place in real time in the form of tutorials, seminars, or workshops. Post-session learning materials, such as additional reading, worksheets, and quizzes, will be provided to amalgamate and further your understanding of the topics covered. Students have a responsibility to manage and engage with the asynchronous learning course materials (video clips, recorded lectures, forums, readings, and quizzes) available on Moodle - which can be accessed whenever.

Face-to-face sessions – or synchronous learning - will allow students to develop their understanding of a topic through further discussions and tutor-led problem-based tasks and other learning activities. Teaching will be delivered through seminar style sessions

incorporating group and project work. The use of anatomical models and practical laboratory workshops will be included into the teaching to allow the application of theory into practice.

Welsh Elements

Students are entitled to submit assessments and sit examinations in the medium of Welsh.

Indicative Syllabus Outline

- Principles of physical science
- Medical terminology
- Normal anatomy of the major body systems
- Normal physiology of the major body systems
- Homeostasis
- The human growth process and developmental changes
- Pathophysiology of common illnesses, diseases, injuries, and well-being
- Well-being and psychopathology
- Physiology of pain
- The major body systems:
    - Cells, genetics, tissues, and blood
    - Respiratory system
    - Cardiovascular system
    - Nervous system
    - Digestive system
    - Urinary system
    - Lymphatic system
    - Endocrine system
    - Integumentary system
    - Musculoskeletal system
    - Immune system
    - Reproductive system

Indicative Bibliography

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads:

- Waugh, A. and Grant, A. (2022), *Ross & Wilson Anatomy and Physiology in Health and Illness*. 14th ed. Amsterdam: Elsevier.
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Other indicative reading:

- Beckett, C. & Taylor, H. A. (2019) *Human growth & development*. 4th edition. Los Angeles: SAGE.
- Henderson, B. & Dorsey, J. L. (2020) *Medical terminology*. Third edition. Hoboken, New Jersey: for dummies.
- Jenkins, Gail. *Anatomy and Physiology*. Hoboken: John Wiley, 2016.

- Peate, I. and Evans, S. (eds.) (2020*), Fundamentals of Anatomy and Physiology for Nursing and Healthcare Students*. 3rd ed. Chichester: Wiley-Blackwell
- Tortora, G. J. et al. (2017) *Tortora's Principles of anatomy & physiology*, global edition. Hoboken, NJ: Wiley

Administrative Information

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Initial approval date	August 2022
With effect from date	September 2022
Date and details of revision	March 2025 – updated Indicative Assessment Tasks section.
Version number	2