

PHIO C1101: Human Physiology

Module Title:			Human Physiology			
Credits: 5		5				
NFQ Level: 6		6				
Module Delivered In			1 programme(s)			
Teaching & Learning Strategies:			Lectures, tutorials and laboratory practical classes; in-class quizzes/puzzles; video/CD animations; online learning; peer assessment using online assessment resources (PeerWise); peer learning using web- enabled and in-class student response systems (e.g. Kahoot); self-directed learning.			
Module Aim:			The aim of this module is to provide a fundamental basis in the knowledge of human physiology- how the body is organised from cell to organ system, and how the systems interact			
Learning Ou	itcomes					
On successful completion of this module the learner should be able to:						
LO1	To understand the organisation of the human body; from the cellular level to the organisation of organs and organ systems					
LO2	Discuss the	e stru	cture and function of the body systems studied			
LO3	Understand the fundamentals of the human body and disease- how the organ systems can be affected and how they can be treated					
LO4	Develop computer and communication skills through report writing, laboratory investigations, and the use of library and online academic resources.					
Pre-requisite	e learning					
Module Rec This is prior l			ctical skill) that is recommended before enrolment in this module.			
No recomme	ndations list	ed				
<i>Incompatible Modules</i> These are modules which have learning outcomes that are too similar to the learning outcomes of this module.						
No incompatible modules listed						
Co-requisite Modules						
No Co-requisite modules listed						
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.						
No requirements listed						



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Module Content & Assessment

Indicative Content

Introduction to Cell structure and Function

Overview of eukaryotic cell structure; cell organelle and cell membrane structure and function.

Tissue Structure and Organisation

The four main tissue types-Epithelia, connective tissue, muscle and nervous tissue. Theory will be supplemented with laboratory based histological slide examination

Endocrine System

General function and organisation of the endocrine system. General mechanisms of hormone control. Role of hormones, and receptors; Role of the hypothalamus pituitary unit in the maintenance of homeostasis; Role of the endocrine system in reproduction, fertility, lactation and menopause

Cardiovascular System

Organisation of the cardiovascular system; blood vessels; the heart; blood pressure and regulation of blood pressure ; Types of blood cells; pharmaceutical therapies of the cardiovascular system

Respiratory System

Structure and function of human respiratory system; Diseases and conditions of respiratory system and pharmaceutical therapies and intervention

The Musculoskeletal System

General organisation, structure and function of the human nervous system including the peripheral nervous systems and central nervous system; Role of the autonomic nervous system in the maintenance of homeostasis; Role of neurotransmitters and receptors; Structure and function of the central nervous system; Diseases affecting the nervous system.

Human Immune System

Overview of innate and acquired immunity; Cellular and humoural components of the human immune system; Inflammation, allergies and infection; Vaccines and the use of immunological techniques

Assessment Breakdown	%	
Continuous Assessment	100.00%	

Continuous Assessment Assessment Assessment Description Outcome % of Assessment addressed total Date Туре Other Continuous assessment will be based on several methods of 1.2.3.4 100.00 n/a assessment, including Research project, Peer Reviewed E-Flashcards presentations, In-class MCQ examinations, Case studies and Laboratory based written reports.

No Project

No Practical

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time						
Workload Type	Frequency	Average Weekly Learner Workload				
Lecture	12 Weeks per Stage	2.00				
Lab/Lecture	12 Weeks per Stage	1.00				
Independent Learning	15 Weeks per Stage	5.93				
	Total Hours	125.00				

Module Delivered In								
Programme Code	Programme	Semester	Delivery					
CW_SAPHA_C	Higher Certificate in Science in Pharmacy Technician Studies	1	Mandatory					