

No requirements listed

## PHIO C1101: Human Physiology

Module Title:		Human Physiology		
Credits: 5				
NFQ Level:	16			
NFQ Level:	10			
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 webenabled and in-class student response systems (e.g. Kahoot); self-directed learning.	е	
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 O	utcomes			
On successi	ful completion	f this module the learner should be able to:		
LO1	To understa	nd the organisation of the human body; from the cellular level to the organisation of organs and organ systems		
LO2	Discuss the	the structure and function of the body systems studied		
LO3	Understand treated	derstand the fundamentals of the human body and disease- how the organ systems can be affected and how they can ated		
LO4	Develop computer and communication skills through report writing, laboratory investigations, and the use of library and onli academic resources.		ıline	
	'			
Pre-requisit	te learning			
	commendatio learning (or a	s ractical skill) that is recommended before enrolment in this module.		
No recomme	endations liste			
Incompatib These are m		ave learning outcomes that are too similar to the learning outcomes of this module.		
No incompa	tible modules	sted		
Co-requisit	e Modules			
No Co-requi	site modules l	ted		
Requirement This is prior		ractical skill) that is mandatory before enrolment in this module is allowed.		



PHIO C1101: Human Physiology

## **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 Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Other	Continuous assessment will be based on several methods of assessment, including Research project, Peer Reviewed E-Flashcards presentations, In-class MCQ examinations, Case studies and Laboratory based written reports.	1,2,3,4	100.00	n/a	

No Project
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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