MODULE DESCRIPTOR

Module Title

Integrated Physiology

Reference	PL2001	Version	3
Created	March 2024	SCQF Level	SCQF 8
Approved	June 2022	SCQF Points	30
Amended	April 2024	ECTS Points	15

Aims of Module

To develop an understanding of human functional physiology through consideration of selected body systems.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

1	Explain the fundamental physiologies of the cardiovascular, gastrointestinal, integumentary, respiratory and renal systems.
2	Apply knowledge and understanding from Outcome 1 to underpin the integration of the cardiovascular, gastrointestinal, integumentary, respiratory and renal systems in the context of drug absorption, distribution, metabolism and excretion.
3	Demonstrate an understanding of the principles underpinning common physiological assessments related to the cardiovascular, respiratory and renal systems.

Indicative Module Content

Integration of the structure, function, physiological processes and regulatory mechanisms of the human body with drug absorption, distribution, metabolism and excretion through consideration of the example body systems: e.g. cardiovascular, gastrointestinal, integumentary, respiratory and renal systems. This module links to SDG 3 (good health and well-being), while making conscious decisions about the use and disposal of resources required to provide a quality learning experience with minimal environmental impact (SDG 12 responsible consumption and production).

Module Delivery

Lectures, coursework sessions (which include data collection and analysis, problem solving exercises), tutorial sessions and directed study (which includes computer packages, directed reading and self assessment exercises).

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Indicative Student Workload	Full Time	Part Time
Contact Hours	70	N/A
Non-Contact Hours	230	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	N/A
Actual Placement hours for professional, statutory or regulatory body		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Examination	Weighting:	50%	Outcomes Assessed:	1
Description:	Assessment comprising objective short answer questions.				

Component 2

Type:	Examination	Weighting:	50%	Outcomes Assessed:	2, 3
Description:	Assessment comprising objective short answer questions.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

Component 1 (EX1) comprises 50% of the module grade. A minimum of a Grade D or better is required to pass this assessment. Component 2 (EX2) comprises 50% of the module grade. A minimum of a Grade D or better is required to pass this assessment. Overall Grade D or better is required to pass this module. Non-submission of either component will result in an NS grade for the module.

Examination:

	Examination:						
	A	**B**	**C**	**D**	**E**	**F**	**NS**
A	A	A	B	C	E	F	
B	A	B	B	C	E	E	
C	B	B	C	C	E	E	
D	B	C	C	D	E	E	
E	E	E	E	E	E	F	
F	E	E	E	E	F	F	
NS	Non-submission of work by published deadline or non-attendance for examination						

Module Requirements

Prerequisites for Module	None, in addition to course requirements.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

1 TORTORA, G.J. and GRABOWSKI, S.R., 2017. *Principles of Anatomy and Physiology. New York: J Wiley and Sons. 2 BORON, W. F. and BOULPAEP, E. L. Medical Physiology. 2016. Oxford: Saunders Elsevier Science*

2 BORON, W. F. and BOULPAEP, E. L., 2017. *Medical Physiology.* Third edition. Oxford: Saunders Elsevier Science.