

MODULE DESCRIPTOR

Module Title

Biological Foundations

Reference	HS1128	Version	1
Created	March 2018	SCQF Level	SCQF 7
Approved	July 2018	SCQF Points	15
Amended		ECTS Points	7.5

Aims of Module

To provide students with an understanding of the structure and function of the body at cellular, tissue and organ levels; and an understanding of Mendelian genetics.

Learning Outcomes for Module

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

- 1 Demonstrate knowledge of the basic structures, functions and growth characteristics of cells.
- 2 Demonstrate knowledge of the structure and function of the four principal tissue types.
- 3 Use appropriate anatomical terminology to describe the structures and compartments of the human body and their spatial orientation.
- 4 Demonstrate knowledge of the principles of genetics and human heredity.

Indicative Module Content

Prokaryotic and eukaryotic cells, membrane structure and membrane transport mechanisms, structure and function of the nucleus, ribosomes, endoplasmic reticulum, Golgi Body, lysosomes, mitochondria and chloroplasts. Mitosis and meiosis. Structure and function of epithelial, connective, nervous and muscle tissue. Anatomical terminology. Anatomical locations of the main organs. Mendel's Laws, inheritance, genotype, phenotype, dominance, sex determination, sex-linkage, variation.

Module Delivery

Fundamental content primarily driven by directed study supported by lecture and tutorial sessions.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	48	N/A
Non-Contact Hours	102	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

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

Component 1

Type:	Examination	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4
Description:	Closed book examination				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

Component 1 (examination) comprises 100% of the module grade. A minimum of 40%/Grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
A	70%
B	60%
C	50%
D	40%
E	35%
F	
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

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

INDICATIVE BIBLIOGRAPHY

- 1 POCOCK, G. and RICHARDS, C.D., 2009. The Human Body: an introduction for the Biomedical and Health Sciences. 5th ed. Oxford: Oxford University Press.
- 2 TORTORA, G.J. and DERRICKSON, B., 2013. Principles of Anatomy and Physiology, 14th ed. Hoboken, N.J.: John Wiley and Sons.
- 3 WAUGH, A. and GRANT, A., 2018. Ross & Wilson Anatomy and Physiology in Health and Illness. 13th ed. Edinburgh, MI: Elsevier.