MODULE DESCRIPTOR

Module Title

Foundations of Paramedic Science

Reference	NU1401	Version	2
Created	August 2023	SCQF Level	SCQF 7
Approved	May 2020	SCQF Points	30
Amended	December 2024	ECTS Points	15

Aims of Module

To facilitate the student to develop an understanding of the sciences across the lifespan in relation to paramedic practice.

Learning Outcomes for Module

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

1	Describe normal anatomy, physiology and homeostatic mechanisms of human development from conception to old age.
2	Describe pathophysiological and psychopathological processes.
3	Demonstrate an understanding of the key psychosocial sciences across the lifespan.
4	Outline the general principles of drug action.
5	Explain microbiology in relation to infection prevention and control.

Indicative Module Content

Evidence based practice; Anatomy, physiology, pathophysiology, psychopathology, biochemistry, physiology of fetal development, physiology of pregnancy and childbirth; Genetics, cell biology growth and development, homeostasis, microbiology, pharmaceutical modes of action; Social structures, social systems, social class - identity, family structures, diversity; social functions - norms and values, social capital, power control and conflict; Psychological perspectives - psychodynamic, behavioural, cognitive, evolutionary, humanistic; Ontology; Aspects of the mind and behaviour; Psychological development across the lifespan; Contemporary debates e.g. Nature v Nurture. Good Health and Wellbeing. This module aligns with the UNSDG goal 3

Module Delivery

Blended learning approach including: lectures, tutorials and online learning.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	80	N/A
Non-Contact Hours	220	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:	100%	Outcomes Assessed:	1, 2, 3, 4, 5
Description:	Computer aided assessment				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

Computer aided assessment with a mix of multiple choice and free text answers.

Module Grade	Minimum Requirements to achieve Module Grade:
A	C1=A
B	C1=B
C	C1=C
D	C1=D
E	C1=E
F	C1=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 BECKETT, C. and TAYLOR, H., 2010. *Human growth and development.* 2nd ed. London: Sage.

2 CLARKE, A., 2010. *The sociology of healthcare.* 2nd ed. Essex: Pearson.

3 MCGAVOCK, H., 2016. *How drugs work: basic pharmacology for healthcare professionals.* 4th ed. London: Taylor Francis Group.

4 HEALTH AND CARE PROFESSIONS COUNCIL (HCPC), 2016. *Standards of Conduct, performance and ethics.* London: HCPC.

5 NHS HEALTH EDUCATION ENGLAND (NHS HEE), 2017. *Genomics education programme.* [online]. Birmingham: NHS HEE. Available from: https://www.genomicseducation.hee.nhs.uk/ [Accessed 11 August 2021].

6 UPTON, D., 2013. *Introducing psychology for nurses and healthcare professionals.* 2nd ed. Hoboken: Taylor and Francis.

7 WELSH, C.J., 2021. *Hole's essentials of human anatomy & physiology* 14th ed. New York: McGraw Hill.