

## MODULE DESCRIPTOR

### Module Title

Developing Paramedic Science

Reference	NU2401	Version	1
Created	February 2020	SCQF Level	SCQF 8
Approved	May 2020	SCQF Points	30
Amended		ECTS Points	15

### Aims of Module

To enable the student to apply 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 Explain the epidemiology and aetiology of prevalent physical, mental, behavioural and cognitive health conditions across the lifespan.
- 2 Discuss the pathophysiology, psychopathology and related clinical features of prevalent physical, mental, behavioural and cognitive health conditions across the lifespan.
- 3 Apply knowledge of pharmacological, physical and psychological interventions in the management of prevalent physical, mental, behavioural and cognitive health conditions across the lifespan.
- 4 Discuss the physiology of women's health and childbirth.
- 5 Explore the impact of prevalent physical, mental, behavioural and cognitive health conditions on individuals and their families.

### Indicative Module Content

Epidemiology; Aetiology; Pathophysiology; Psychopathology; Anatomy; Physiology; Pharmacology; Polypharmacy; Pharmacodynamics and pharmacokinetics; Virology; Immunology; Genetics; Classification systems; Impact of health conditions and treatments on individuals and their families; Woman's health; Additional care for pregnancy; Childbirth and new-born infants; Impact of social structures; Social systems; Social class; Social functions; Psychological perspectives; Psychological trauma and trauma informed care - aetiology, diagnosis, and treatment of a range of health conditions across the lifespan.

### Module Delivery

Blended learning approach including: lectures, tutorials, online learning, virtual community.

**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
<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, 5
Description:	Written exam				

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

Unseen written exam

Module Grade	Minimum Requirements to achieve Module Grade:
<b>A</b>	C1=A
<b>B</b>	C1=B
<b>C</b>	C1=C
<b>D</b>	C1=D
<b>E</b>	C1=E
<b>F</b>	C1=F
<b>NS</b>	Non-submission of work by published deadline or non-attendance for examination

**Module Requirements**

Prerequisites for Module	None, in addition to SCQF level 8 requirements or equivalent
Corequisites for module	None.
Precluded Modules	None.

**INDICATIVE BIBLIOGRAPHY**

- 1 ATHERTON, H. and CRICKMORE, D., 2012. *Learning Disabilities: Towards inclusion*. 6th ed. Croydon: Elsevier
- 2 COLLINS, E., DRAKE, M., and DEACON, M., eds., 2013. *The physical care of people with mental health problems: a guide for best practice*. London: Sage.
- 3 HEALTH AND CARE PROFESSIONS COUNCIL (HCPC), 2016. *Standards of Conduct, performance and ethics*. London: HCPC.
- 4 LINDEN, D., 2019. *The Biology of Psychological Disorders*. 2nd ed. London: RED GLOBE PRESS
- 5 McCANCE, K. and HUETHER, S., eds., 2014. *Pathophysiology: the biologic basis for disease in adults and children*. 7th ed. St Louis, MI: Mosby.
- 6 MCGAVOCK, H., 2016. *How drugs work: basic pharmacology for healthcare professionals*. 4th ed. London: Taylor Francis Group.
- 7 PILGRIM, D., 2020. *Key concepts in mental health, 5th edition*. London: Sage.
- 8 RANDALL, M and NEIL, K., 2016. *Disease management: a guide to clinical pharmacology*. 3rd ed. London: Pharmacology Press.