

Introducing Paramedic Science

Module Code:	PAS4001-E
Academic Year:	2018-19
Credit Rating:	60
School:	School of Allied Health Professions and Midwifery
Subject Area:	Paramedic Science
FHEQ Level:	FHEQ Level 4

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Tutorials	180
Directed Study	417.5
Examinations DO NOT USE	2.5

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims

To develop knowledge and understanding of the underlying theories and concepts of human biology, clinical science and public health that inform contemporary paramedic practice. To prepare the student for the application of theory into clinical practice.

Outline Syllabus

Cell Structure. The organisation of the body into systems. Homeostasis. Anatomy and physiology of the haematological system, cardiovascular system, respiratory system, skeletal system, nervous system, gastrointestinal system, genitourinary system and endocrine system. Laboratory work using appropriate technologies; including associated health and safety, report writing and presentation of data including descriptive analysis. Patient safety, including human factors and improvement science. Inter-professional education and multi-

disciplinary team working. Psychology and sociology of health. Public health and epidemiology. Dementia and care of those in distress. Research skills including referencing and application of journal material into assignments. Presentation skills. Portfolio development. Introduction to the PBL methodology of learning. Group working skills facilitated by PBL. Safeguarding, Equality and Diversity.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1
 - 1.1 Describe the normal structure, function and control of major body systems;
 - 1.2 Describe the human factors that can enhance and inhibit effective Inter-Professional team working;
 - 1.3 Explain the main issues affecting the provision of effective dementia care in contemporary paramedic practice;
 - 1.4 Demonstrate how the public health agenda affects contemporary paramedic practice.
- 2
 - 2.1 Undertake practical tasks in your professional area of practice associated with the evaluation and interpretation of simple data;
 - 2.2 Apply knowledge of anatomy and physiology to explain or demonstrate aspects of basic clinical skills undertaken in ambulance care practice;
 - 2.3 Identify the skills, values and behaviours of a professional practitioner;
 - 2.4 Explain core concepts of epidemiology.
- 3
 - 3.1 Organise, evaluate and interpret data;
 - 3.2 Demonstrate an ability to communicate clearly, succinctly and professionally across a range of formats;
 - 3.3 Develop group working skills.

Learning, Teaching and Assessment Strategy

Research informed problem based learning tutorials, lectures and workshops will deliver core content; providing students with the opportunity to develop knowledge and conceptual understanding. Directed study will include preparation for the tutorials/workshops.

Learning outcome 1.1, 1.2, 1.3, 1.4, 2.2, 2.3, 2.4, 3.2, and 3.3 will be facilitated through Problem Based Learning tutorials, supported by web-based resources, workshops and lectures. Outcomes 2.1, 3.1, 3.3 and 3.4 will be facilitated through laboratory workshops, practical exercises/simulated clinical skills. Directed study will include preparation for the tutorials/workshops, and opportunities for formative guided study activities on key topics.

Formative assessment will occur throughout the module with opportunities for mock assessments and feedback. The MCQ exam will assess learning outcomes 1.1, 1.2, 1.3, 1.4, 2.2, 2.3, 2.4 and 3.2. The laboratory report will assess learning outcomes 2.1, 3.1 and 3.2. The presentation will assess learning outcomes 1.4, 2.3, 3.2 and 3.3.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Presentation	Group seminar presentation with individual supporting written paper & reflective summary 3000 words Pass at 40%		50%	No
Summative	Laboratory Report	Record of laboratory work (1000 words) Pass at 40%	0-1000 words	17%	No
Summative	Examination - MCQ	"Multiple Choice Questions, Extended Matched Questions Pass at 40%"	2 hours	33%	No

Legacy Code (if applicable)

HM-4503Z

Reading List

To view Reading List, please go to [rebus:list](#).