

Module Details	
Module Title	Introducing Paramedic Science
Module Code	PAS4001-E
Academic Year	2021/2
Credits	60
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 4

Contact Hours	
Type	Hours
Lectures	100
Groupwork	20
Online Lecture (Asynchronous)	6
Tutorials	6
Seminars	9
Online Lecture (Synchronous)	12
Laboratories	3
Interactive Learning Objects	24
Independent Study	420

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year

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 TBL methodology of learning and group working skills.

Learning Outcomes

Outcome Number	Description
01	Describe the normal structure, function and control of major body systems.
02	Describe the human factors that can enhance and inhibit effective Inter-Professional team working.
03	Explain the main issues affecting the provision of effective dementia care in contemporary paramedic practice.
04	Demonstrate how the public health agenda affects contemporary paramedic practice.
05	Undertake practical tasks in your professional area of practice associated with the evaluation and interpretation of simple data.
06	Apply knowledge of anatomy and physiology to explain or demonstrate aspects of basic clinical skills undertaken in ambulance care practice.
07	Identify the skills, values and behaviours of a professional practitioner.
08	Explain core concepts of epidemiology.
09	Organise, evaluate and interpret data
10	Demonstrate an ability to communicate clearly, succinctly and professionally across a range of formats.
11	Develop group working skills.

Learning, Teaching and Assessment Strategy

Research informed student centred 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, 2, 3, 4, 6, 7, 8, 10, and 11 will be facilitated through student centred tutorials, supported by web-based resources, workshops and lectures. Learning outcomes 5, 9, 10 and 11 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.

Assessment:

The group presentation will assess learning outcomes 4, 7, 8, 10 and 11.

The laboratory report will assess learning outcomes 5, 6, 9 and 10.

The clinical case study will assess learning outcomes 2, 3 and 10.

The MCQ exam will assess learning outcomes 1, 6.

The group presentation is preceded by a formative group seminar.

The laboratory report and written clinical case study will be preceded with formative assessment and feedback which will either be timetabled, or be available by request, from either module leads or Personal Academic Tutors.

Sample MCQ questions are provided for student review ahead of the end of year MCQ assessment.

Mode of Assessment

Type	Method	Description	Weighting
Summative	Examination - MCQ	Multiple Choice Questions, Pass at 40% (2 Hrs)	25%
Summative	Laboratory Report	Record of laboratory work (1500 words) Pass at 40%	25%
Summative	Presentation	Group presentation Must Pass at 40% (45 Mins)	25%
Summative	Coursework - Written	Case Study (1500 words) Pass at 40%	25%

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.