

Module Details	
Module Title	Developing Paramedic Science
Module Code	PAS5001-E
Academic Year	2024/5
Credits	60
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 5

Contact Hours	
Type	Hours
Groupwork	81
Lectures	36
Online Lecture (Synchronous)	30
Online Tutorials (Synchronous)	6
Practical Classes or Workshops	27
Directed Study	420

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

Module Aims
<p>To develop understanding of the underlying theories and concepts of pathophysiology, clinical science and public health which inform contemporary paramedic practice.</p> <p>To prepare the student to apply theory into practice and respond appropriately to a range of undifferentiated clinical presentations.</p>

Outline Syllabus

Pathophysiology and pharmacology in acute and long term conditions. Clinical decision making.

Laboratory work; 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.

Research skills.

Presentation skills.

Leadership and management in the context of healthcare delivery.

Learning Outcomes

Outcome Number	Description
01	Demonstrate an insight and awareness of human factors theories and how they impact upon patient care.
02	Define the cultural and social or political factors which inform contemporary paramedic practice.
03	Identify the key ethical, legal or professional frameworks which underpin the delivery of contemporary paramedic practice.
04	Recognise how social determinants can impact on an individual's health.
05	Identify how different types of data, sampling strategies and research methodologies are used and interpreted in health care research.
06	Appraise published research by applying systematic guidelines to its interpretation and evaluation.
07	Critically analyse contemporary research and the how this can be used to inform patient centred care.
08	Analyse the pathophysiological processes that dictate the progression of a range of acute and long term conditions.
09	Evaluate the pharmacological management of a range of acute and long term conditions
10	Develop teamworking skills: provide and respond to feedback from team members.
11	Analyse and interpret physiological data and scientific units of measurement routinely acquired in health care practice.
12	Apply clinical reasoning across a range of common prehospital presentations at a clinical level necessary to permit entry to sandwich year.
13	Differentiate between life threatening and less time critical electrocardiographs
14	Select how abnormal findings on patient examination can be used to differentiate underlying injuries and pathologies.

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.

All learning outcomes will be facilitated through student centred tutorials, supported by web-based resources, workshops and lectures.

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. Summative assessment 1 will assess learning outcomes 1,2,3,4.

Summative assessment 2 will assess learning outcomes 5, 6, and 7. Summative assessment 3 will assess learning outcomes 8, 9, 10 and 11. Summative assessment 4 will assess learning outcomes 12,13 and 14.

Mode of Assessment

Type	Method	Description	Weighting
Summative	Presentation	Poster presentation	25%
Summative	Coursework - Written	Critical Appraisal	25%
Summative	Team-Based Learning Assessment	On-going auditive assessment (iRats, tRats & Peer Assessment) (MUST PASS AT 40%) Supplementary Reflective Account	25%
Summative	Online MCQ Examination	MCQ (2.5 Hrs)	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.