

Module Details	
Module Title:	Developing Paramedic Science
Module Code:	PAS5001-E
Academic Year:	2019-20
Credit Rating:	60
School:	School of Allied Health Professions and Midwifery
Subject Area:	Paramedic Science
FHEQ Level:	FHEQ Level 5
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	Hours
Tutorials	180
Directed Study	420

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

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

Outline Syllabus
Same as original for the unsuccessful assessment. 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. Diabetes care. Research skills. Presentation skills. Leadership and management in the context of healthcare delivery.

Learning Outcomes

1	Analyse the pathophysiology of a range of acute and long term conditions.
2	Evaluate the pharmacological management of a range of acute and long term conditions;#.
3	Explain the main issues affecting the provision of effective diabetes care in contemporary paramedic practice
4	Demonstrate knowledge and understanding of ethical, legal and professional issues within Inter-Professional teams.
5	Analyse and interpret complex data associated with pathophysiology and/or pharmacology to demonstrate informed clinical decision making.
6	Apply knowledge of pathophysiology and/or pharmacology to demonstrate and explain how clinical skills undertaken in ambulance practice contribute to patient care.
7	Analyse human factors theory and its implications for Inter-Professional practice.
8	Apply concepts of either epidemiology and leadership and management theory to the evaluation of contemporary paramedic practice.
9	Organise, analyse and interpret complex clinical data
10	Reflect on the impact that human factors can have upon your own professional practice.

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, 5, 6, 7, 8 and 10 will be facilitated through student centred tutorials, supported by web-based resources, workshops and lectures. Learning outcomes 5, 6 & 9 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 poster presentation will assess learning outcomes 4, 7, 8 and 10. The written clinical case study will assess learning outcomes 5, 6 and 9. The end of year MCQ will assess learning outcomes 1, 2, 4, 5, 6 and 9. The TBL component will assess learning outcomes 1, 2, 3, 5, 6 and 9.

The poster presentation 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 TBL iRAT assessments are available to review during the initial formative TBL sessions and sample MCQ questions are provided for student review ahead of the end of year MCQ assessment.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Presentation	Poster presentation (Must Pass at 40%)	15 minutes	25%
Summative	Coursework	Written Clinical Case Study (2500 words) (Must Pass at 40%)	-2500 words	25%
Summative	Computerised examination	Multiple Choice Questions, Extended Matched Questions (Must Pass at 40%)	2 hours	25%
Summative	Classroom test	On-going auditive assessment (iRATs, tRATs & Peer Assessment) MUST PASS at 40%, Supplementary Reflective Account		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.