

Developing Paramedic Science

Module Code:	PAS5001-E
Academic Year:	2018-19
Credit Rating:	60
School:	School of Allied Health Professions and Midwifery
Subject Area:	Paramedic Science
FHEQ Level:	FHEQ Level 5
Module Leader:	Mr John Baxter

Additional Tutors:

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Tutorials	180
Directed Study	420

Availability Periods

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.

Module Learning Outcomes

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

- 1
 - 1.1 Analyse the pathophysiology of a range of acute and long term conditions;
 - 1.2 Evaluate the pharmacological management of a range of acute and long term conditions;
 - 1.3 Explain the main issues affecting the provision of effective diabetes care in contemporary paramedic practice;
 - 1.4 Demonstrate knowledge and understanding of ethical, legal and professional issues within Inter-Professional teams.
- 2
 - 2.1 Analyse and interpret complex data associated with pathophysiology and/or pharmacology to demonstrate informed clinical decision making;
 - 2.2 Apply knowledge of pathophysiology and/or pharmacology to demonstrate and explain how clinical skills undertaken in ambulance practice contribute to patient care;
 - 2.3. Analyse human factors theory and its implications for Inter-Professional practice.
 - 2.4 Apply concepts of both epidemiology and leadership and management theory to the evaluation of contemporary paramedic practice.
- 3
 - 3.1 Organise, analyse and interpret complex clinical data;
 - 3.2 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 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4 and 3.2 will be facilitated through student centred tutorials, supported by web-based resources, workshops and lectures.

Outcomes 2.1, 2.2 & 3.1 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. Summative assessment: The end of year MCQ will assess learning outcomes 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.4 and 3.1. The laboratory report will assess learning outcomes 2.1, 2.2 and 3.1. The poster presentation and supporting written paper will assess learning outcomes 1.4, 2.3, 2.4 and 3.2. The TBL component will assess all

learning outcomes.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Presentation	Poster presentation with supporting written paper 2000 words (Must Pass at 40%)	0-2000 words	25%	No
Summative	Laboratory Report	Record of laboratory work (2000 words) (Must Pass at 40%)	0-2000 words	25%	No
Summative	Examination - MCQ	Multiple Choice Questions, Extended Matched Questions (Must Pass at 40%)	2 hours	26%	No
Summative	Computer-based assessment	On-going auditive assessment (iRATs, tRATs & Peer Assessment) MUST PASS at 40%, Supplementary Reflective Account		24%	No

Legacy Code (if applicable)

HM-5503Z

Reading List

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