

Module Details	
Module Title:	Integrating Paramedic Science and Practice
Module Code:	PRP6023-E
Academic Year:	2019-20
Credit Rating:	60
School:	School of Allied Health Professions and Midwifery
Subject Area:	Paramedic Science
FHEQ Level:	FHEQ Level 6
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	Hours
Lectures	84
Practical classes and workshops	48
Placement	225
Tutorials	8
Directed Study	235

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

Module Aims
To apply understanding of, and to critically reflect on, the underlying theories and concepts of human biology, pathophysiology, pharmacology, clinical science and public health which inform contemporary paramedic practice at a competency level commensurate with practitioners registered with the Health and Care Professions Council as paramedics. To undertake independent study that critically analyses and critically evaluates contemporary paramedic practice.

Outline Syllabus

Pathophysiology and pharmacology in acute and long term conditions. Clinical decision making. 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. 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 care. Diabetes care. Research skills. Independent study. Leadership and management in the context of healthcare delivery.

Advanced airway management. Advanced Life Support (ALS). Clinical skills techniques covering the full range of paramedic competencies. Safe and competent use of manual defibrillators. Recognition and management of STEMI and CVA. Recognition and management of a wide range of disease presentations. Appropriate unsupervised use of a range of drugs. Recording and Interpretation of complex clinical data. Appropriate use of clinical and referral pathways. Clinical record keeping and information governance.

Learning Outcomes

1	Evaluate and interpret diverse clinical presentations on the basis of applied knowledge of human biology, pathophysiology, pharmacology and clinical decision making at a competency level commensurate with practitioners registered with the Health and Care Professions council as a paramedic.
2	Demonstrate an integrated knowledge of human biology at a competency level commensurate with practitioners registered with the Health and Care Professions council as a paramedic.
3	Critically evaluate how human factors impact on the development of organisational policy, procedure and culture.
4	Critically evaluate evidence to inform the quality of contemporary clinical care and/or to inform clinical practice development.
5	Analyse and critique information following systematic methods of enquiry.
6	Identify and evaluate professional scope of practice in the context of inter-professional and multi-agency working.
7	Demonstrate specific paramedic clinical skills at a competency level commensurate with practitioners registered with the Health and Care Professions Council as a Paramedic.
8	Organise, analyse and interpret complex data and communicate relevant problems and/or solutions to a range of professional audiences.
9	Demonstrate independent project working skills and self-directed enquiry based learning.
10	Critically reflect on the development of your own learning and knowledge in becoming a collaborative practitioner.

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. Choice of assessment from

literature review, primary research, research proposal or clinical audit.

Clinical skills workshops and clinical practice placement will enable students to practice and implement packages of care. Students will work with link lecturers in clinical skills facilities and allocated clinical practice mentors in the practice setting to develop the knowledge and skills required to achieve the learning outcomes.

Learning outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 will be facilitated through student centred tutorials, supported by web-based resources, workshops and lectures. Learning outcomes 1, 2, 6 and 7 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 OSCE will assess learning outcome 7.

The MCQ will assess learning outcomes 1 and 2.

The coursework literature review/ service evaluation component will assess learning outcomes 4, 5, 8 and 9.

The written record of assessment in practice will assess learning outcomes 1, 3, 6 and 10.

Formative assessment of clinical skills will occur throughout the module in skills workshops and practice placement areas, with opportunities to undertake mock assessment and receive feedback. Tutorial support to provide formative feedback on the literature review / service evaluation project is provided. Furthermore, all students can request formative feedback on part of their written assignments.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Examination - practical/laboratory	Objective Structured Clinical Examination (MUST pass at 40%)	0 hours	25%
Summative	Examination - MCQ	Multiple Choice Questions, Extended Matched Questions (must pass at 40%)	2 hours	25%
Summative	Coursework	Literature review/ primary research/ proposal / clinical audit (4000 words) (must pass at 40%)	0-4000 words	33%
Summative	Coursework	Written record of assessment in practice (2000 words) (must pass at 40%)	0 hours	17%

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.