

Module Details	
Module Title	Integrating Paramedic Science and Practice
Module Code	PAS6003-E
Academic Year	2024/5
Credits	60
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 6

Contact Hours	
Type	Hours
Directed Study	224
Online Lecture (Asynchronous)	3
Online Lecture (Synchronous)	11
Lectures	105
Practical Classes or Workshops	48
Work based learning	200
Tutorials	9

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

Module Aims
<p>This module aims to integrate the core knowledge, practical and clinical skills, together with the professional attributes that students have acquired throughout the duration of the programme, to allow the further development of the necessary diagnostic reasoning, problem-solving, prioritising, and evidence-based decision-making capabilities to respond to the undifferentiated needs of patients at a level required to become a registered paramedic. To undertake independent study demonstrating an ability to critically analyse and critically evaluate contemporary healthcare practice.</p>

Outline Syllabus

Advanced literature search skills including formulating an answerable question, keywords, MeSH terms, truncation and wildcards, and use of Boolean operators. Data extraction and critical appraisal skills. Time/project management. Construction of an independent study, developing and enhancing critical thinking and written presentation skills.

Advanced airway management skills, advanced life support (ALS), clinical skills commensurate with the scope of practice of a paramedic including endotracheal intubation, intravenous cannulation, intraosseous cannulation, needle cricothyroidotomy and jet insufflation, needle thoracostomy, synchronised cardioversion, 12-lead ECG recognition etc., clinical diagnostics, recognition and management of a wide range of patient presentations across the life-cycle.

Appropriate unsupervised use of a range of drugs. Recording and interpretation of complex clinical data. Appropriate use of clinical and referral pathways. Leadership and management in the context of healthcare delivery. Principles of major incident response. Law and ethics in the context of decision-making for paramedics.

Learning Outcomes

Outcome Number	Description
01	1.1 Demonstrate the ability to provide safe, effective and appropriate resuscitation for patients across the lifespan in accordance with evidence-based practice. 1.2 Demonstrate interpersonal communication, team-working and leadership skills, to facilitate integrated working and the management of complex, dynamic and evolving situations 1.3 Manage risk and uncertainty in order to establish and maintain a safe practice environment for all.
02	2.1 Demonstrate the ability to independently identify, plan and execute a focussed, in-depth and time bounded research based project using the knowledge and skills acquired in the taught element of the module. 2.2 Demonstrate a rigorous, transparent, systematic, and replicable approach to literature retrieval, data extraction, quality appraisal and analysis/synthesis of research evidence. 2.3 Formulate appropriate, balanced and defensible conclusions through the analysis and synthesis of research evidence and make recommendations to inform future practice. 2.4 Communicate complex information, findings, arguments and proposals coherently, and in a conventional scholarly format, to a professional audience.
03	3.1 Apply the core clinical skills of a paramedic to appropriately respond to physical and mental health concerns, disease, injury and dysfunction in diverse populations across the life-cycle. 3.2 Communicate at the professional level of a paramedic with service users, families, carers, colleagues and members of the multi-disciplinary/multi-professional team. 3.3 Competently select and administer treatments, therapies and drugs to respond to patients with undifferentiated needs across the life-cycle to a level expected of a paramedic. 3.4 Demonstrate an ability to competently manage a wide range of undifferentiated patient presentations utilising recognised pathways of care, appropriate referrals or safety netting procedures. 3.5 Critically reflect on the development of your own learning and knowledge in becoming a collaborative practitioner.
04	4.1 Examine the professional, legal, and ethical frameworks that inform safe and effective contemporary paramedic practice. 4.2 Critically evaluate the delivery of healthcare provision through the contribution of expert paramedic practice within the context of contemporary organisational and operational priorities. 4.3 Demonstrate an ability to assimilate professional, legal, and ethical determinants in formulating decisions that serve the best interests of the patient. 4.4 Examine the juxtaposition between the concept of autonomous practice and the primacy of patient-centred care.

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.

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

Learning outcomes 2.1, 2.2, 2.3, 2.4, 4.1, 4.2, 4.3 and 4.4 will be facilitated through student centred tutorials, supported by web-based resources, tutorials, workshops and lectures.

Learning outcomes 1.1, 1.2, 1.3, 3.1, 3.2, 3.3, 3.4 and 3.5 will be facilitated through skills workshops, practical exercises/simulated clinical skills and practice placement. Directed study will include preparation for the tutorials/workshops/assessments, and opportunities for formative guided study activities on key topics.

Assessment:

- (1) The OSCE will assess learning outcomes 1.1, 1.2 and 1.3.
- (2) The literature review component will assess learning outcomes 2.1, 2.2, 2.3, and 2.4.
- (3) The written record of assessment in practice will assess learning outcomes 3.1, 3.2, 3.3, 3.4, and 3.5.
- (4) The time-bound essay will assess learning outcomes 4.1, 4.2, 4.3, and 4.4.

Mode of Assessment

Type	Method	Description	Weighting
Summative	Coursework - Written	Literature review (5000 words) Pass at 40%	50%
Summative	Short-Time Limited Online Examination	Time-bound essay examination (must pass at 40%)	25%
Summative	Examination - practical/laboratory	Objective Structured Clinical Examination (must pass at 40%)	25%
Summative	Coursework - Portfolio/e-portfolio	Written record of assessment in practice (Pass/fail)	0%

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.