Introducing Paramedic Science

Module Code: PAS4001-E
Academic Year: 2018-19
Credit Rating: 60
School: School of Allied Health Professions and Midwifery
Subject Area: Paramedic Science
FHEQ Level: FHEQ Level 4

Pre-requisites:
Co-requisites:

Contact Hours

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tutorials</td>
<td>180</td>
</tr>
<tr>
<td>Directed Study</td>
<td>417.5</td>
</tr>
<tr>
<td>Examinations DO NOT USE</td>
<td>2.5</td>
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</tbody>
</table>

Availability Periods

<table>
<thead>
<tr>
<th>Occurrence</th>
<th>Location/Period</th>
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<tbody>
<tr>
<td>BDA</td>
<td>University of Bradford / Academic Year (Sept - May)</td>
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Module Aims

To develop knowledge and understanding of the underlying theories and concepts of human biology, clinical science and public health that inform contemporary paramedic practice. To prepare the student for the application of theory into clinical practice.

Outline Syllabus

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. Laboratory work using appropriate technologies; 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-

Module Learning Outcomes

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

1. Describe the normal structure, function and control of major body systems;
2. Describe the human factors that can enhance and inhibit effective Inter-Professional team working;
3. Explain the main issues affecting the provision of effective dementia care in contemporary paramedic practice;
4. Demonstrate how the public health agenda affects contemporary paramedic practice.

1.1 Undertake practical tasks in your professional area of practice associated with the evaluation and interpretation of simple data;
2.2 Apply knowledge of anatomy and physiology to explain or demonstrate aspects of basic clinical skills undertaken in ambulance care practice;
3.3 Identify the skills, values and behaviours of a professional practitioner;
4.4 Explain core concepts of epidemiology.

Learning, Teaching and Assessment Strategy

Research informed problem based learning 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, 2.2, 2.3, 2.4, 3.2, and 3.3 will be facilitated through Problem Based Learning tutorials, supported by web-based resources, workshops and lectures. Outcomes 2.1, 3.1, 3.3 and 3.4 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. The MCQ exam will assess learning outcomes 1.1, 1.2, 1.3, 1.4, 2.2, 2.3, 2.4 and 3.2. The laboratory report will assess learning outcomes 2.1, 3.1 and 3.2. The presentation will assess learning outcomes 1.4, 2.3, 3.2 and 3.3.

Mode of Assessment
<table>
<thead>
<tr>
<th>Type</th>
<th>Method</th>
<th>Description</th>
<th>Length</th>
<th>Weighting</th>
<th>Final Assess'</th>
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<tbody>
<tr>
<td>Summative</td>
<td>Presentation</td>
<td>Group seminar presentation with individual supporting written paper &amp; reflective summary 3000 words Pass at 40%</td>
<td>50%</td>
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<tr>
<td>Summative</td>
<td>Laboratory Report</td>
<td>Record of laboratory work (1000 words) Pass at 40%</td>
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<td>Summative</td>
<td>Examination - MCQ</td>
<td>&quot;Multiple Choice Questions, Extended Matched Questions Pass at 40%&quot;</td>
<td>33%</td>
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**Legacy Code (if applicable)**
HM-4503Z

**Reading List**
To view Reading List, please go to rebus:list.