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

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Tutorials</td>
<td>180</td>
</tr>
<tr>
<td>Directed Study</td>
<td>420</td>
</tr>
</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 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.


Module Learning Outcomes

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

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.

2.1 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.

3.1 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
### 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>Poster presentation with supporting written paper 2000 words (Must Pass at 40%)</td>
<td>0-2000 words</td>
<td>25%</td>
<td>No</td>
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<tr>
<td>Summative</td>
<td>Laboratory Report</td>
<td>Record of laboratory work (2000 words) (Must Pass at 40%)</td>
<td>0-2000 words</td>
<td>25%</td>
<td>No</td>
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<tr>
<td>Summative</td>
<td>Examination - MCQ</td>
<td>Multiple Choice Questions, Extended Matched Questions (Must Pass at 40%)</td>
<td>2 hours</td>
<td>26%</td>
<td>No</td>
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<tr>
<td>Summative</td>
<td>Computer-based assessment</td>
<td>On-going auditive assessment (iRATs, tRATs &amp; Peer Assessment) MUST PASS at 40%, Supplementary Reflective Account</td>
<td>24%</td>
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<td>No</td>
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#### Legacy Code (if applicable)

HM-5503Z

#### Reading List

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