

Module Specification

Module Summary Information

1	Module Title	Applied Physiology and Pharmacology for Health and Social Care
2	Module Credits	20 Credits
3	Module Level	6
4	Module Code	LBR6587

5	Module Overview
<p>Rationale</p> <p>The Shape of Caring review (2015) has highlighted specific challenges in relation to management of chronic diseases that the health service will face over the next decade. These challenges include the management of long-term conditions such as obesity, diabetes and dementia.</p> <p>In this module you will develop your knowledge of the physiological basis of disease and current available strategies to treat ill health. Particular emphasis will be placed on the physiological origins of chronic diseases and current and emerging strategies to treat and manage patients with these conditions. In addition to these chronic conditions, you will also explore the impact of threats to global health such as antibiotic resistance, TB and influenza.</p> <p>Alignment with Programme Philosophy and Aims</p> <p>A key facet of the Course is the opportunity to facilitate and develop your learning using a collaborative approach which includes both your peers and module staff. This module will use methods that promote collaboration from virtual classrooms, where you can engage face to face, to discussion fora to allow a greater depth of structured argument to be developed.</p> <p>This module aligns with the Course aims through its delivery of the physiological and pharmacological knowledge that underpins some of the major challenges facing global healthcare in the 21st century (e.g. obesity, antibiotic resistance). As such this will enable you to develop your career by through an evidence-based approach to improve your practice skills.</p> <p>Learning and Teaching Strategy</p> <p>This module is delivered online, which provides a flexible platform to develop your learning. The module is structured to allow you to engage with the material in a way that suits your personal circumstances and allows for learning to proceed under your control. The module content is structured into themes that reflect some of the major challenges that currently face the health care sector.</p> <p>Each theme will be introduced by a short (~20 minute) lecture screencast, where fundamental knowledge and major concepts will be introduced. These 'talking heads' will be supported by a mix of guided workbooks, websites and interactive activities such as quizzes. In addition, through interaction with your peers and tutors using discussion fora and virtual classrooms you will have the opportunity</p>	

to test and develop your understanding. You will have the opportunity for video tutorials with the module staff.

Assessment Strategy

Assessment will be via a 3000 word written Patchwork assessment. Self-directed study using the supporting online resources combined with formative feedback sessions will provide the opportunity to effectively prepare for this assessment.

Reference

Willis L (2015) Raising the Bar, Shape of Caring: A Review of the Future Education and Training of registered nurses and care assistants, London: Health Education England.

6	Indicative Content
Launch Module	
Physiological Principles (homeostasis and the basis of disease)	
Introduction to Pharmacology (Includes Pharmacokinetics and Pharmacodynamics: application of these factors to assessment and management of the patient)	
Physiology & pharmacology of cells & microbes (includes impact of microbes on global health and current strategies to treat infections)	
The physiology & pharmacology of cells & cancer (Includes cancer and pharmacotherapy)	
The physiology & pharmacology of the skin & wound healing (Includes physiology of the skin, stages and processes of wound healing)	
The physiology & pharmacology of obesity (Includes emerging global health issue. Causes and consequences of obesity. Exploring role of pharmacotherapy)	
The physiology & pharmacology of diabetes (Builds on Obesity topic. Type 1 and Type 2 diabetes)	
The physiology & pharmacology of the brain & dementia (Includes functions of the Nervous System with reference to changes in individuals living with dementia.)	

7	Module Learning Outcomes
On successful completion of the module, students will be able to:	
1	Articulate the key principles that underpin the biological basis of disease.
2	Evaluate the current evidence base relating to pharmacotherapy of disease states.
3	Discuss how the aetiology of disease impacts your professional practice.

8	Module Assessment		
Learning Outcome			
	Coursework	Exam	In-Person
1 – 3	X		

9	Breakdown Learning and Teaching Activities	
Learning Activities		Hours
Scheduled Learning (SL) includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable		100 hours
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE		30 hours
Private Study (PS) includes preparation for exams		70 hours
Total Study Hours:		200