

Module Specification

Module Summary Information

1	Module Title	HSC7006 Nutrition, Metabolism, Pathology and Pharmacology
2	Module Credits	20
3	Module Level	7
4	Module Code	HSC7006

5	Module Overview
<p>In order to work safely and effectively as a dietitian, you are required to develop a detailed knowledge of the basic and applied sciences that underpin nutrition and dietetics, including an understanding of the integrated nature of these disciplines and how they inform clinical practice. The module will begin with some revision of human physiology and biochemistry, before moving on to develop your understanding of immunology, and your knowledge of microbiology applied to human disease. You will critically analyse the changes in metabolism that take place through the life cycle, relating this to nutrition and considering the implications for your practice through evidence-based peer discussion.</p> <p>The second part of the module will develop your understanding of the role of nutrition in a variety of pathological situations, whilst introducing you to disease classification, patient investigation and common types of treatment and management, including drug therapy. You will also develop the skills to evaluate and interpret biochemical and clinical data and will be given the opportunity to apply your knowledge to clinical scenarios, enabling contextualisation of the taught material.</p> <p>In this module, you will engage with an assortment of blended learning opportunities, underpinned by the practice-led, knowledge applied philosophy of the programme. The pre-and post-session activities will enable you to further develop your knowledge of the topics covered in class, and may include reading academic literature from both UK and international research groups, engaging in discussion on moodle forums, participating in online quizzes and applying your knowledge to case studies. Taken together, these learning opportunities will help you to understand the core principles of immunology, genetics and microbiology and the integrated nature of physiology, biochemistry and nutrition at different stages of the lifecycle, and in the molecular basis of disease. You will apply your learning to selected disease states, facilitating specialised knowledge of the disease process and a sound understanding of common types of therapy and patient management. This will be useful in preparing you for the module exam, as well as developing an applied understanding of the scientific disciplines that underpin your dietetic practice.</p>	

6	Indicative Content
<ul style="list-style-type: none"> • Revision of learning on the major body systems, microbiology and immunology • Metabolism through the lifecycle • Interpretation of nutritional Biochemistry and Clinical data • Pharmacology • Patient investigation and common types of treatment and management for a range of pathological situations. 	

7		Module Learning Outcomes On successful completion of the module, students will be able to:
	1	Explain the principles of immunology, microbiology and genetics in relation to health and disease.
	2	Critically analyse the common themes and concepts in human nutrition and metabolism and relate these to the stages of the lifespan and to common clinical conditions.
	3	Critically interpret biochemical, clinical and pharmacological data for complex medical conditions.
	4	Synthesise and critically evaluate all sources of information to articulate an evidence based and holistic approach to a clinical scenario related to a selected disease process.

8		Module Assessment		
Learning Outcome		Coursework	Exam	In-Person
1-4			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		50	
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE		100	
Private Study (PS) includes preparation for exams		50	
Total Study Hours:		200	