

ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Clinical Science					
Module Code	UZYRSG-30-M		Level	M	Version	1
UWE Credit Rating	30	ECTS Credit Rating	15	WBL module?	No	
Owning Faculty	Health and Applied Sciences		Field	Allied Health Professions		
Department	Allied Health Professions		Module Type	Standard		
Contributes towards	MSc Physician Associate Studies					
Pre-requisites	None		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements	None		
First CAP Approval Date	24/03/2016		Valid from	September 2016		
Revision CAP Approval Date			Revised with effect from			

Review Date	
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Part 2: Learning and Teaching	
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate an understanding of the fundamental concepts of pathology and the causes, development, structural changes, clinical features and complications of an agreed range of common disorders [Components A and B]. • Critically discuss the strategies available to control and treat microbial & viral infections [Component B] • Critically discuss the biological basis of selected haematological disease states [Component B] • Demonstrate a comprehensive understanding of the biological bases of the different immunohaemolytic disease states [Components A and B] • Demonstrate an understanding of the dysfunction of the immune system and be able to relate this to the associated disease states [Components A and B]. • Identify and critically discuss the changes in anatomy and physiology for required clinical disorders and pathologies [Components A and B]
Syllabus Outline	<ul style="list-style-type: none"> • <u>Anatomy and Physiology</u>: The structure and function of normal and pathological states of key systems including cardiovascular, respiratory, gastrointestinal, renal, and neurological • <u>Medical Microbiology</u>: The control of infectious diseases in human populations: students will develop knowledge of antimicrobial drugs;

	<p>vaccination; environmental control of diseases, vectors and reservoirs; disinfection and sterilisation</p> <ul style="list-style-type: none"> • Medical Microbiology: Infectious diseases of key body systems: students will develop a deeper knowledge of infections of selected body systems such as the neurological system, genital tract, the respiratory tract and the gastrointestinal tract: covering the epidemiology of infections that are associated with the system; pathogenic and virulence traits of the infecting microbes; prevention and treatment of infections of the system; i.e. the host-microbe balance aspects of different infections will be developed. Examples covered will be chosen to illustrate other fundamental microbiological principles such as zoonoses, noscomial infections, opportunistic pathogens, environmentally acquired infections and endogenous infections • Haematology: The anaemias. Classification systems. Megaloblastic anaemias. Iron deficiency and related anaemias. Normal erythrocyte structure and function. Red cell survival disorders. Haemoglobinopathies and the thalassaemia syndromes. Red cell enzymopathies. • Haematology: Haematological malignancy. Aetiology and the multi-hit hypothesis. Classification. Principles of investigation and diagnostic criteria. Pathophysiology. Theoretical basis of cytotoxic chemotherapy. • Applied immunology: Application of antibodies in immunodiagnostics and current technology. Antibody engineering and use of monoclonal and other synthesized antibodies. Applications of antibodies and cytokines in the treatment of diseases. Chemotherapy.
Contact Hours	<p>Formal lectures – typically up to 6 hours per week during teaching weeks, where appropriate to the subject matter.</p> <p>Laboratory practicals will be scheduled in place of relevant lectures <i>where appropriate</i>.</p> <p>Students will also spend 3 days in clinical placement.</p>
Teaching and Learning Methods	<p>Scheduled learning includes lectures, seminars, tutorials, demonstration, practical classes.</p> <p>Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below. Scheduled sessions may vary slightly depending on the module choices you make.</p> <p>Placement learning includes hours engaged in practice (clinical placement).</p>
Key Information Sets Information	<p>Key Information Sets (KIS) are produced at programme level for all programmes that this module contributes to, which is a requirement set by HESA/HEFCE. KIS are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.</p>

Key Information Set - Module data				
Number of credits for this module			30	
Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours
300	90	186	24	300

The table below indicates as a percentage the total assessment of the module which constitutes a -

Written Exam: Unseen written exam, open book written exam, In-class test

Coursework: Written assignment or essay, report, dissertation, portfolio, project

Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam

Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description:

Total assessment of the module:		
Written exam assessment percentage		50%
Coursework assessment percentage		50%
Practical exam assessment percentage		0%
		100%

Reading Strategy

Core reading

Any core reading will be indicated clearly, along with the method for accessing it, e.g. students may be required to purchase a set text, be given a print study pack or be referred to texts that are available electronically or in the Library. Module handbooks will also reflect the range of reading to be carried out.

Further reading

Further reading will be required to supplement the set text and other printed reading. Students are expected to identify all other reading relevant to their chosen topic for themselves. They will be required to read widely using the library search, a variety of bibliographic and full text databases, and Internet resources. Many resources can be accessed remotely. The purpose of this further reading is to ensure students are familiar with current research, classic works and material specific to their interests from the academic literature.

Access and skills

The development of literature searching skills is supported by a Library seminar provided within the first semester. Students will be presented with further opportunities within the curriculum to develop their information retrieval and evaluation skills in order to identify such resources effectively. Additional support is available through the library web pages, including interactive tutorials on finding books and journals, evaluating information and referencing. Sign up workshops are also offered by the Library.

Indicative Reading List	<p>The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. However, as indicated above, current advice on readings will be available via the module handbook.</p> <p><u>Medical Microbiology</u></p> <ul style="list-style-type: none"> • Brooks, G., Carroll, K., Morse S. and Mietzner T. (2013) <i>Jawetz, Melnick & Adelberg's Medical Microbiology</i>. 26th ed. London: McGraw Hill • Engleberg, N., DiRita, V. and Dermody, T. (2006) <i>Schaechter's Mechanisms of Microbial Disease</i>. Baltimore: Lippincott, Williams & Wilkins • Greenwood, D., Slack, J., Peutherer, J., and Barer, M. (2012) <i>Medical Microbiology: a guide to microbial infections: pathogenesis, immunity, laboratory diagnosis and control</i>. 18th ed. London: Churchill Livingstone Elsevier <p><u>Haematology</u></p> <ul style="list-style-type: none"> • Abbas, A.K., Lichtman, A.H. and Pillai, S. (2015) <i>Cellular and Molecular Immunology</i>. 8th ed. Oxford: Elsevier Saunders. • Goldsby R., Kindt T., Osbourne B. & Kuby J. (2002) <i>Immunology</i> 5th ed. New York: W.H. Freeman. • Hoffbrand, A., Pettit, J. and Moss, P. (2012) <i>Hoffbrand's Essential Haematology</i>. [online] 7th ed. Oxford: Wiley Blackwell [Accessed 18 January 2016] • Male, D.K, (2012) <i>Immunology</i>. [online] 8th ed. Oxford: Elsevier Saunders. [accessed 18 January 2016]. • Overfield, J., Dawson, M., and Hamer, D. (2008) <i>Transfusion Science</i>. 2nd Ed. Oxford: Scion Publishing Ltd.
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Part 3: Assessment	
Assessment Strategy	<p><u>The Component A assessment (2hrs)</u> for this module will include a controlled conditions exam consisting of questions that cover the breadth of topics included in the syllabus, and are delivered through a variety of models such as matching pairs, identity, wordbank, MCQ, sequence and others. This is designed to mimic the breadth and depth of material and knowledge a Physician Associate will be required to draw on 'on the job' and 'in the moment'. This exam will enable students to prepare for the national exam, using similar question formats.</p> <p><u>The Component B 2500 word written assessment</u> will be a critical review of a relevant new approach/technique/management model for a condition or pathology in current practice. This is designed to focus the student's skill at keeping up to date with relevant literature to inform their practice, and to pull out and evaluate the relevant information. The topic will be of the student's choice (in agreement with the module leader) but must be from within the syllabus as taught.</p>

Identify final assessment component and element	Component A	
% weighting between components A and B (Standard modules only)	A: 50	B: 50

First Sit	
Component A (controlled conditions) Description of each element	Element weighting (as % of component)
1. Exam- 2 hours	100
Component B Description of each element	Element weighting (as % of component)
1. Written critical review (2,500 words).	100

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) Description of each element	Element weighting (as % of component)
1. Exam- 2-hours	100
Component B Description of each element	Element weighting (as % of component)
1. Written critical review (2,500 words).	100
If a student is permitted a retake of the module under the University Regulations and Procedures, the assessment will be that indicated by the Module Description at the time that retake commences.	