

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data					
Module Title	Advanced Respiratory and Sleep Physiology				
Module Code	USSJYB-30-3		Level	3	Version 1
Owning Faculty	HLS		Field	Applied Sciences	
Contributes towards	BSc(Hons) Healthcare Science (Physiological Sciences) Respiratory & Sleep Physiology				
UWE Credit Rating	30	ECTS Credit Rating	15	Module Type	Standard,
Pre-requisites	Respiratory and Sleep Physiology A and B (Level 2) [USSJY9-20-1 and USSJYA- 20-2]		Co- requisites		
Excluded Combinations			Module Entry requirements		
Valid From	September 2012		Valid to	September 2018	

CAP Approval Date 16 May 2012

Part 2: Learning and Teaching		
Learning Outcomes	Part 2: Learning and Teaching On successful completion of this module the student will: 1. Review basic respiratory and sleep physiology investigations and apply knowledge to typical clinical scenarios. 2. Explain in detail the underpinning basic and clinical science with respect to: • Challenge Testing. 3. Evaluate the mode of action and application of key pharmacological agents. 4. Discuss human development from birth to adulthood with respect to the respiratory system. 	
	 5. Explain in detail the differences between children and adults with respect to respiratory physiology investigations and determine how these affect clinical practice. 6. Explain and evaluate the methods available for assessing respiratory function in children ≥ 8 years. 7. Recognise the value of clinical audit in optimising services. 8. Detail the importance of patient-centred care and recognise the needs of people with disabilities within this care pathway. 	
	All Learning Outcomes assessed via component A, the focus of the case-study (component B) will alter year on year but will reflect one or more of the Learning Outcomes listed above.	
	In addition the educational experience may explore, develop, and practise <u>but not</u> <u>formally discretely assess</u> the following Professional aspects, as set out within the Modernising Scientific Careers Curriculum:	
	 Respect and uphold the rights, dignity and privacy of patients. Establish patient-centred rapport. 	

	 Appreciate the empathy and sensitivity needed when dealing with the patient experience of long-term conditions and terminal illness. Actively seek accurate and validated information from all available sources with respect to respiratory and sleep investigations. Select and apply appropriate analysis or assessment techniques and tools. Critically discuss the problems associated with the care of patients undergoing respiratory investigations or treatments.
Syllabus Outline	Indicative ContentPatient Centred Care• Communication skills• Consent• Confidentiality• Disability including learning disabilities• Care pathways for patients with respiratory disease• Problems associated with careHuman development of the respiratory system.Review inflammation mechanisms and basic immunology of relevance.Pharmacology and mechanism of action of key agents e.g. mannitol, methacholine, histamine.Challenge Testing• Methods for assessing airway reactivity – chemical, cold air• Methods for assessing airway reactivity – exercise, hyperventilation• Indications and contra-indications for testing• Safety precautions and safe handling of reagents• Presentation of results• Skin allergy testing
Contact Hours/Scheduled Hours	 The student will have a minimum of 6 hours per week contact time over the course of semester 1. The module will be delivered by specialist practitioners within the work-place setting and will comprise lectures, seminars, tutorials, practicals, and observation as appropriate to the module content at the time. The teaching will take place within the University Hospitals Bristol Respiratory and Sleep departments and University Hospitals Bristol Education Centre.
Teaching and Learning Methods	 Students are expected to spend 72 hours on scheduled learning and 228 hours on independent learning. Independent learning will take the following forms with an approximate indication of time required for each: Essential reading to support acquisition of knowledge relating to lectures and practical exercises – 96 hours Researching case studies, including accessing VLE scenarios such as 'Virtual Patient' – 30 hours Observational learning and discussions within the BRI or 'home' placement setting – 20 hours Preparation and submission of assessment – 10 hours Revision and preparation for exam – 72 hours Scheduled learning includes lectures, seminars, tutorials, demonstration, practical classes and workshops; work based learning. Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc.

Reading Strategy	 Students will be expected to purchase any core text recommended, access to the text will also be provided for reference via the library, but is not expected to negate need for the student to provide their own copy. Students will be expected to access other essential reading either via handouts provided or online through the library, Blackboard, or other recommended source (typically free access e-journal). Where possible, where free online access is not available digitalised copies of book chapt or articles will be provided. All students are encouraged to read widely using the library catalogue, a variety of bibliographic and full text databases and Internet resources. Many resources can be accessed remotely. Guidance to some key authors and journal titles available through the Library will be given in the Module Guide and updated annually. Assignment reference lists are expected to reflect the range of reading carried out. 		
	Students are expected to be able to identify and retrieve appropriate reading. This module offers an opportunity to further develop information skills introduced at Level 1. Students will be given the opportunity to attend the GDP sessions on selection of appropriate databases and search skills. Additional support is available through the Library Services 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	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 other more frequently updated mechanisms.		
	Cotes JE, Chinn DJ, Miller MR (2006) Lung Function, 6 th Ed. Blackwell Publishing		
	Gibson GJ (2009). Clinical Tests of Respiratory Function, 3 rd Ed. Hodder Arnold		
	Hughes M (2010) Physiology & Practice of Pulmonary Function. Association of Respiratory Technology & Physiology		
	Lumb AB (2010). Nunn's Applied Respiratory Physiology, 7 th Ed. Churchill Livingstone		
	Maskell N, Millar A (2009). Oxford Desk Reference: Respiratory Medicine. OUP		
	Ruppel GL (2003) Manual of Pulmonary Function Testing. 8 th Ed, Mosby		
	The ARTP Practical Handbook of Respiratory Function Testing - Part 1. (2003) Second edition. Association of Respiratory Technology & Physiology		
	The ARTP Practical Handbook of Respiratory Function Testing - Part 2. (2005) Second edition. Association of Respiratory Technology & Physiology		
	West J.B. (2012) Respiratory Physiology The Essentials. Ninth Edition. Lippincott Williams & Wilkins		
	Journals		
	Respiration Physiology Thorax Chest European Respiratory Journal		
	Therapeutic Advances in Respiratory Disease		

Respiratory Medicine

Part 3: Assessment					
Assessment Strategy	 summative exactions of the course of the study. Opportunities formative asses with the summ The generic as 	(controlled) will take the form am. The exam will explore the ate and synthesise materials a ne module. coursework will take the form or formative assessment will ck students' grasp of content. ssment will be designed to er ative assessment styles. ssessment criteria used in the made available to students, w	student's abil and topics cov of an integrate occur through The nature of isure student f Department o	ity to ered during ed case- out the the amiliarity f Applied	
Identify final assessment co	mponent and element	Component A	, element 1		
% weighting between con	nonents A and B (Star	idard modules only)	A:	B:	
······································			60	40	
First Sit					
Component A (controlled conditions) Description of each element				Element weighting (as % of component)	
1. Exam (3 hours) [Assessment Period 1]			10	100	
Component B Description of each eleme	ent		Element v (as % of co	weighting pmponent)	
1. Case-study (2000 words)	1		1(00	

Resit (further attendance at taught classes is not required)			
Component A (controlled conditions) Description of each element	Element weighting (as % of component)		
1. Exam (3 hours) [Assessment Period 3]	100		
Component B Description of each element	Element weighting (as % of component)		
1. Case-study (2000 words)	100		

If a student is permitted an **EXCEPTIONAL RETAKE** of the module the assessment will be that indicated by the Module Description at the time that retake commences.