

STUDENT AND ACADEMIC SERVICES

Part 1: Basic Data						
Module Title	Physiology and	Physiology and Pharmacology for Nursing Practice				
Module Code	UZWSMW-30-1		Level	1	Version 2	
Owning Faculty	Health and Life	Sciences	Field	Acute and Critical Care Adult Nursing		
Contributes towards	BSc (Hons) Nursing					
UWE Credit Rating	30 ECTS Credit Rating		15	Module Type	Standard	
Pre-requisites	None		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements	None		
Valid From	September 2017		Valid to	September 2019		

MODULE SPECIFICATION

Part 2: Learning and Teaching				
Learning Outcomes	 On successful completion of this module students will be able to: Identify physiological needs and key processes necessary for maintaining homeostasis (Component A) Describe the structure and function of cells, tissues and physiological systems and the complex nature of their interactions (Component A) Demonstrate a knowledge and understanding of the role of genes in health and in the manifestation, modification and prevention of disease relevant to nursing practice (Component A) Outline the key principles of pharmacology (Component A) Describe characteristics of major medicines groups and selected 'typical' medicines in terms of the following: mechanism of action, indications for use, contraindications to use, expected therapeutic effects, common or serious side effects (Component A) Discuss the key physiological and pharmacological concepts which aim to promote or restore homeostasis in nursing practice (Component A and B) Demonstrate an understanding of the physiological basis which underpins nursing practice (Component A) 			

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Syllabus Outline	Homeostasis and health: levels of organisation in the human body, cell structure and function, integrated functioning of organ systems, principles of homeostasis, structure and function of skin
	Body fluids and transport: blood and other body fluids, structure and functions of heart and blood vessels, control of blood pressure, hydration, physiology of shock
	Feeding and nutrition: regulation of eating and swallowing, principles of nutrition, physiology of the digestive system, structure and functions of liver
	Movement and stability: control of posture and movement, bones, joints and skeletal muscle physiology
	Respiration: respiratory structures, ventilation, gas exchange, control of breathing
	Excretion: kidney function, control of fluid balance, biological basis of continence
	Communication and control: structure and function of different divisions of the nervous system, structure and functions of the nerve cells, synapses and neurotransmission, roles of hormones, physiology of stress
	Pain: physiology of pain and pain pathways, pain theories, physiological basis of pharmacological therapies and non-pharmacological strategies to manage pain
	Growth and development: cell proliferation, life cycle changes, brain development, biology of ageing, reproductive physiology, introduction to genetics
	Sleep and rest: functions and the physiology of sleep, sleep patterns, physiological basis for interventions that promote sleep
	Defence mechanisms: introduction to micro-organisms; introduction to immunology, non-specific immune response, cell-mediated immunity and humoral immunity
	Pharmacology: principles of pharmacodynamics and pharmacokinetics, commonly used medicine groups and their actions, uses, side effects, and nursing implications
Contact Hours	A total of 72 hours in the form of seminars, lectures and online activities
	Students will have an average of five hours per week contact time in the weeks when the module is delivered. The module will be delivered in two periods, one in each semester. This will take the form of lectures and seminars/workshops. The lectures will be delivered by specialist biological sciences lecturers and the field specific seminars will be delivered by a team of specialist biological sciences lecturers and field specific nurse lecturers.
	The module will also take advantage of virtual learning environments (VLEs) and technology enhanced learning activities including podcasts and various on-line activities.
Teaching and Learning Methods	 A variety of approaches will be used which may include: Lectures Seminars Simulation of case scenarios Lecturer facilitation and support Workshops Service user and carer perspectives Directed and independent learning Reflective approaches to learning
	Students are expected to spend 72 hours on scheduled learning and 228 hours on
	claterine are expected to open in 2 heare on conclusion forming and 220 hours on

	independent learning.						
Key Information Sets Information	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.						
	Key Inform	nation Set - Mo	odule data				
	Numbero	f credits for this	s module		30		
	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours		
	300	72	228	0	300		
	 The table below indicates as a percentage the total assessment of the module which constitutes a - Written Exam: Unseen 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: 						
	-	Fotal assessme	ent of the modul	e:			
	-						
	-	Nritten exam as	•	•	100%	-	
		Coursework ass Practical exam	-			-	
	-			loontage	100%	_	
Deeding	Cono noodineno						
Reading Strategy	 Core readings Students will be expected to purchase one or more of the core texts. The module handbook will include which text(s) should be purchased. Copies of core texts will be provided in the library stock. The module handbook will also reflect the range of reading to be carried out. Further readings Further reading will be provided as lecture handouts, guided learning activities and as digitised articles where free electronic access is not available. 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 handbook and updated annually. Assignment reference lists are expected to reflect the range of reading carried out. Access and skills Formal opportunities for students to develop their library and information skills 						
	Pormal opportur are provided wit Programme. Ad- pages, including information and	hin the induction ditional support interactive tub	on period and t is available t torials on findi	their Academ hrough the Ling books and	ic Personal brary Services journals, eval	Tutor s web luating	

Indicative	Indicative Reading List:
Reading List	Adams, M.P. and Holland, L.N. (2011) <i>Pharmacology for Nurses: a Pathophysiologic Approach</i> . London: Pearson.
	Barber, P., Parkes, J. and Blundell, D. (2012) <i>Further Essentials of Pharmacology for Nurses</i> [online]. Maidenhead: Open University Press [Accessed 8 February 2013].
	Blows, W. T. (2011) <i>The Biological Basis of Mental Health Nursing</i> . 2nd Ed. London: Routledge.
	Chamley, C. A., Carson, P., Randall, D. and Sandwell, M. (2005) <i>Developmental anatomy and physiology of children: a practical approach.</i> Edinburgh: Elsevier Churchill Livingstone.
	Greenstein, B (2009) <i>Trounce's Clinical Pharmacology for Nurses</i> . 18th ed. Edinburgh: Churchill Livingstone Elsevier.
	Marieb, E.N. and Hoehn, K. (2013) <i>Human Anatomy and Physiology</i> . 9th ed. London: Pearson.
	MacGregor, J (2008) Introduction to the Anatomy and Physiology of Children: a Guide for Students of Nursing, Child Care and Health [online]. 2nd ed. London: Routledge. [Accessed 8 February 2013].
	Mcfadden, R. (2009) <i>Introducing Pharmacology for Nursing and Healthcare</i> . Harlow: Pearson Education.
	Saladin, K.S. (2010) <i>Anatomy and Physiology: the Unity of Form and Function.</i> 5th ed. London: McGraw-Hill Higher Education.
	Shier, D.; Butler, J. and Lewis, R. (2013) <i>Hole's Human Anatomy and Physiology</i> . 13th Edition. New York: McGraw-Hill.
	Thorp, C. (2008) <i>Pharmacology for the health care professions</i> [online]. Chichester: John Wiley & Sons Ltd. [Accessed 8 February 2013].
	VanPutte, C. L., Regan, J.L. and Russo, A.F. (2013) Seeley's essentials of anatomy and physiology 8th Ed. London: McGraw-Hill.
	Van De Graaff, K.M., Rhees, W. And Palmer, S.L. (2009) <i>Schaum's outline of human anatomy and physiology</i> [online]. 3rd ed. London: McGraw-Hill USA. [Accessed 8 February 2013].
	Journals Biological Sciences Review British Journal of Nursing Nursing Standard
	Database Anatomy & Physiology Online

Part 3: Assessment				
Assessment Strategy	Component A (controlled condition) will take the form of a 2 hour unseen examination. This type of examination will enable assessment across the module learning outcomes to ensure students have a broad and detailed understanding of the core concepts in physiology and pharmacology.			
	The exam will comprise both multiple choice and short answer questions The opportunities for formative assessment will include on-line multiple			

choice questions which will provide instant feedback for students. T seminars will provide opportunities for students to apply physiology a pharmacology concepts to case studies from their field of practice. S group activities and short presentations within seminars will provide opportunities for formative assessment by peers and academic staff	and Small
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Identify final assessment component and element	А			
% weighting between components A and B (Star	ndard modules only)	A: 100%	B :	
First Sit				
Component A (controlled conditions) Description of each element			Element weighting (as % of component)	
1. Exam (2 hours)	100%			

Resit (further attendance at taught classes is not required)			
Component A (controlled conditions)Element weighting (as % of component)Description of each element(as % of component)			
1. Exam (2 hours)	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.

FOR OFFICE USE ONLY

First CAP Approval Date		9 May 2013				
Revision CAP Approval Date Update this row each time a change goes to CAP	5 April 2	017	Version	2	Link to RIA 11818	