Wrexham glyndŵr UNIVERSITY

MODULE SPECIFICATION PROFORMA

Module Title:	Anatomy and Applied Physiology	**Level**:	4	**Credit Value**:	20

Module code:	CMP404	**Is this a new module?** no	**Code of module being replaced**:	

Cost Centre:	GACM	**JACS3 code**:	B300

Trimester(s) in which to be offered:	1	**With effect from:**	September 16

School:	Social & Life Sciences	**Module Leader:**	Paul Battersby

Scheduled learning and teaching hours	50 hrs
Guided independent study	150 hrs
Placement	0 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered	Core	Option
BSc (Hons) Acupuncture	✓	☐
BSc (Hons) Complementary Therapies for Healthcare	✓	☐
BSc (Hons) Rehabilitation and Injury Management	✓	☐

Pre-requisites
None

Office use only
Initial approval August 16
APSC approval of modification *Enter date of approval* Version 1
Have any derogations received SQC approval? Yes ✓ No ☐

Module Aims
The aims of the module are: 1. To provide an in depth understanding of the human body and the accompanying physiological processes that allow for its optimal functioning. 2. To provide students with knowledge of human anatomical and physiological structures in both healthy and diseased states.

Intended Learning Outcomes

Key skills for employability

KS1	Written, oral and media communication skills
KS2	Leadership, team working and networking skills
KS3	Opportunity, creativity and problem solving skills
KS4	Information technology skills and digital literacy
KS5	Information management skills
KS6	Research skills
KS7	Intercultural and sustainability skills
KS8	Career management skills
KS9	Learning to learn (managing personal and professional development, self-management)
KS10	Numeracy

At the end of this module, students will be able to		Key Skills	
1	Demonstrate an understanding of the concept and maintenance of homeostasis.	KS1	KS3
		KS4	KS5
		KS6	
2	Identify the different levels of structural organisation within the human body.	KS1	KS3
		KS4	KS5
		KS6	
3	Recognise the major structures of the human body and offer explanations on their physiological functions.	KS1	KS3
		KS4	KS5
		KS6	
4	Demonstrate understanding of regional and surface anatomy and the location of internal organs, vessels and structures.	KS1	KS3
		KS4	KS5
		KS6	

5	Demonstrate how physiological knowledge can be used to develop a treatment plan thereby enhancing and improving health.	KS1	KS3
		KS4	KS5
		KS6	KS9
6	Summarise how the human body's defence mechanisms work and how they provide resistance to disease.	KS1	KS3
		KS4	KS5
		KS6	

Transferable/key skills and other attributes

By the end of the module the student will demonstrate:

Data interpretation.
Communicate (oral & written) with others using appropriate terminology
Demonstrate group & teamwork.
Utilise data to establish a treatment plan.

Derogations

Credits shall be awarded by an Assessment Board for this module when a mark of at least 40%, or a pass grade, has been achieved in all elements of assessment.

Assessment:

Assessment One:
Practical examination will require the student's to demonstrate their knowledge and understanding of the importance of the skills required to palpate surface anatomy and construct an appropriate treatment plan.

Assessment Two:
A written examination which will assess the students underpinning knowledge of the subject.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	4, 5, 6	Practical	50%	20 min	
2	1, 2 & 3	Examination	50%	2 hours	

Learning and Teaching Strategies:

The delivery of this module will consist of lectures, interactive classroom sessions, group and personal tutorials and workshops. It is intended that the module will provide support to students throughout the module; however students will be encouraged to become increasingly autonomous as they gain competence and confidence within their studies.

Moodle will act as a repository for both the session teaching materials and supplementary resources.

Indicative syllabus outline:

An introduction to anatomy & physiology including anatomical terminology
Structural organisation to include and chemicals that make up the human body
Cell structure & function and investigating major tissues and organs.
Changes in the human body associated with exercise and ageing
Provide essential knowledge of anatomical and physiological functioning and the major mainstream diseases of the following systems;
The organism
The skeleton & joints including range of movements
The integumentary system
The circulatory system and Blood & vessels
The respiratory system
The reproductive system
The musculoskeletal system including palpation skills
The lymphatic system
The digestive system
The nervous system
The endocrine system
The renal system

Bibliography:

Essential reading

Biel, A. and Dorn, R. (2014), *Trail Guide to the Body: A Hands-on Guide to Locating Muscles, Bones, and More*. 5th ed. Books of Discovery.

This book should be available from the library in Edward Llwyd Building, main campus.

Drake, R., Vogl, W. and Mitchell, A. (2015), *Gray's Anatomy for Students*, 3rd ed. London: Churchill Livingstone.

This book should be available from the library in Edward Llwyd Building, main campus.

Lumley, J. (2008*), Surface Anatomy. The Anatomical Basis of Clinical Examination*. 4th ed. London: Churchill Livingstone.

This book is available as an e-book. Please note that you will need to be logged into Athens to access it.

Premkumar, K. (2004), *The Massage Connection Anatomy & Physiology*. 2nd ed. London: Lippincott Williams & Walkins.

This book should be available from the library in Edward Llwyd Building, main campus.

Tortora, G. J. and Grabowski, S. R. (2014), *Introduction to the human body: the essentials of anatomy & physiology*. 10th ed. New York: Wiley Publications

This book should be available from the library in Edward Llwyd Building, main campus.

Tortora, G. J. and Grabowski, S. R. (2014), *Principles of Anatomy & Physiology*. 14th ed. New York: Field Wiley Publications.

This book should be available from the library in Edward Llwyd Building, main campus.

Other indicative reading

Fox, S. (2003), *Anatomy, Physiology and Pathology for the Massage Therapist*. Gloucester: Corpus Publishers.

This book should be available from the library in Edward Llwyd Building, main campus.

Kapit, W. et al (2013), *Anatomy Colouring Book*. 4th ed. Harlow: Pearson Education Limited.

This book should be available from the library in Edward Llwyd Building, main campus.

Marieb, E. (2013), *Human Anatomy & Physiology*. 9th ed. Upper Saddle River: Pearson.

This book should be available from the library in Edward Llwyd Building, main campus.

Martini, F. (2014), *Fundamentals of Anatomy and Physiology*. 10th ed. New Jersey: Prentice Hall.

This book should be available from the library in Edward Llwyd Building, main campus.

Rizzo, D. (2009), *Fundamentals of anatomy and physiology.* Andover: Cengage Learning Inc.

This book should be available from the library in Edward Llwyd Building, main campus.