

Summary Information

Module Code	3406FNDSCI
Formal Module Title	Anatomy and Physiology
Owning School	Biological and Environmental Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 3
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

Learning Methods

Learning Method Type	Hours
Lecture	40
Online	3
Practical	12
Workshop	4

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	This module aims to examine the concepts of homeostasis, communication and transport within organisms and to provide an introduction to human and non-human animal anatomy and physiology
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Define and use the common terms for absolute and relative anatomical position.
MLO2	2	Describe the organisation of the human body into systems and their functions.
MLO3	3	Identify and discuss the way these systems interact.
MLO4	4	Review the mechanisms employed to produce a homeostatic state within living organisms with reference to specific physiological systems.
MLO5	5	Apply skills in data analysis and interpretation

Module Content

Outline Syllabus	History of anatomy. Anatomical nomenclature. Tissues of the body. Integument. Developmental anatomy. The musculoskeletal system. The endocrine system. The nervous system. The heart and circulatory system. The lymphatic system. The respiratory system. The digestive system. The urinary system. The reproductive system. The relationship between form and function, adaptation to the environment reflected in physical structures and biochemical modification. The concept of homeostasis. Feedback mechanisms, positive and negative feedback and the steady state. Thermo-regulatory systems in animals. Diffusion and passive transport facilitated diffusion, active transport, co-transport, exocytosis and endocytosis, intestinal absorption and renal excretion. Circulatory systems and their characteristics. Open and closed circulatory systems. Neural and endocrine systems and their integration.
Module Overview	This module enables you to examine the concepts of homeostasis, communication and transport within organisms. It also provides an introduction to human functional anatomy using a systemic approach to the organisation and function of organs and tissues in the human body.
Additional Information	This module provides an introduction to the function and structure of living organisms. A comparative approach is taken to stress the organisation and integration of animal form and function. Additionally, the module provides students with an appreciation of the basic physiological mechanisms.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Practical report	40	0	MLO5
Centralised Exam	Exam using MCQs	60	1.5	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Chrysanthi Fergani	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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