Anatomy and Physiology

Module Information

2022.01, Approved

Summary Information

Module Code	3501YAUGEN
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	36
Practical	18

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	Throughout the module you'll gain an understanding of a wide variety of aspects of the anatomy and physiology of both animals and plants. Animal topics will be primarily focused on mammals, and will include coverage of cell- and tissue-level organisation, anatomy and physiology related to the integumentary system, the respiratory and cardiovascular systems, thermoregulation, the renal and digestive systems, the skeletal system and muscle, and an introduction to the nervous system. Plant topics will include plant structure and function from cellular to whole organism level, transport and translocation of water and solutes, and photosynthesis.

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 animal bodies into systems and their basic functions.
MLO3	3	Relate structure to function in a variety of contexts in animal and plant biology.
MLO4	4	Review the mechanisms employed by animals to maintain a state of homeostasis.

Module Content

Outline Syllabus	Modular structureAnatomy and Physiology is taught through three Parts:Animal Anatomy and Physiology 1: Introduction and basic concepts; structure, function and homeostasis; cell- and tissue-level organisation; gross anatomy and anatomical terminology. Support and movement: the integumentary system, bones, muscle and cartilage. The digestive system.Animal Anatomy and Physiology 2: Control and Regulation: the nervous system, thermoregulation and endocrinology. Gases, Fluids and Transport: Cardiovascular, respiratory and renal systemsAnatomy and Physiology of Plants: In this module students will gain a thorough knowledge of the basic structure and function of plants, including plant cellular structure and plant tissues; gross anatomy of plants and environmental adaptations; plant transport systems: water balance and solute movement; photosynthesis; and plant growth and development.
Module Overview	
Additional Information	This module is for individuals to develop an understanding of the fundamental principles of anatomy and physiology of animals as related to support, movement and digestion.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	In-class test 1	33	1	MLO1, MLO2, MLO3, MLO4
Exam	In-class test 2	33	1	MLO1, MLO2, MLO3, MLO4
Exam	In-class test 3	34	1	MLO1, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings

Alun Hughes	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings