

Module specification

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Module Code	ANM530
Module Title	Animal Health and Disease
Level	5
Credit value	20
Faculty	FSLS
HECoS Code	100523
Cost Code	GAAN

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
FdSc Animal Behaviour Welfare and Conservation	Core
BSc Hons Animal Behaviour Welfare and Conservation	Core
BSc (Hons) Equine Science and Welfare Management	Core

Pre-requisites

N/A

Breakdown of module hours

Learning and teaching hours	20 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	10 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	30 hrs
Placement / work based learning	0 hrs
Guided independent study	170 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	15/5/24
With effect from date	September 2024
Date and details of revision	
Version number	1

Module aims

This module continues to extend and develop our students' knowledge and understanding of animal health and disease from their anatomy and physiology module. The disease process will be examined and the physiological status which affects the normal parameters. This module will examine the different pathogens and how they manifest into disease states. An introduction to immunology will provide the students with the understanding on how Animal physiology can help to fight disease. The role of immunisation and vaccination protocols will also be included in this module.

Module Learning Outcomes - at the end of this module, students will be able to:

1	Evaluate the aetiology, pathogenesis and pathophysiology for infectious and non-infectious common diseases.
2	Examine the role of the immune system and the importance of good husbandry in disease control and prevention.
3	Devise health assessments and first-aid protocols for a range of scenarios.

Assessment

Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

1. In class test: MCQ, short answer, problem-based questions (2 hours)
2. Practical: Devise and carryout health assessments and first aid protocols for a range of scenarios

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1 & 2	In-class test	60
2	3	Practical	40

Derogations

N/A

Learning and Teaching Strategies

A blended format will be utilised to deliver this module. An active and inclusive learning environment aligned to Universities ALF will enable flexible, accessible, and individualised learning opportunities for students. This approach will include both synchronous and asynchronous learning. Practical sessions and workshops will enable students to implement theory in practice. Assessments will take place mid-point and at the end of the module.

Indicative Syllabus Outline

Pathogens, bacteria, viruses, protozoa, fungal, parasites, replication, mode of transmission, vectors, carriers, zoonotic consideration, notifiable and reportable diseases, infectious diseases, aetiology, pathogenesis and pathophysiology, clinical signs, incubation period, non-infectious conditions of body systems, to include respiratory system, cardiovascular system, haemopoietic system and neoplasms, digestive system, musculoskeletal system, endocrine system, nervous system, renal system, reproductive system.

The immune defence system, innate and adaptive immunity, cells of the innate system, molecules of the innate system, inflammation, antigens, lymphocytes and the adaptive system, specificity and memory, antibody structure and classes, principles of vaccination, immunisation, prophylactic protocols, husbandry, and management systems.

Health assessment to include physiological parameters, CRT, pulse points, mentation, handling and restraint, normal and abnormal signs, behavioural indicators of ill health and recognition of pain, first aid principles and emergency care for a range of injuries and accidents, CPR, ABCD, common toxins.

Indicative Bibliography:

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads

Cooper, B., Turner, L. and Mullineaux, E. (2020), *BSAVA Textbook of Veterinary Nursing*, 6th ed. Gloucester: British Small Animal Veterinary Association.

Other indicative reading

Hastie, P. & Ivens, P. (2012), *The BHS Veterinary Manual*. 2nd Edition. Kenilworth: Kenilworth Press.

Weese, J.S. and Evason, M. (eds) (2020), *Infectious Diseases of the Dog and Cat*. New York: CRC Press.

Employability – the University Skills Framework

Each module and degree programme are designed to support learners as they develop their graduate skills aligned to the University Skills Framework.

Using the philosophies of the Active Learning Framework (ALF) our 10 skills are embedded within programmes complementing core academic subject knowledge and understanding. Through continuous self-assessment students own their individual skills journey and enhance their employability and career prospects.

This Module forms part of a degree programme that has been mapped against the University Skills Framework.

The Wrexham University Skills Framework Level Descriptors: An incremental and progressive approach.

Learners can use this document to identify where and how they are building skills and how they can develop examples of their success.