

Module specification

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Module Code	ANM431
Module Title	Introduction to Canine Anatomy and Physiology
Level	4
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 Canine Behaviour Training and Performance	Core

Pre-requisites

N/A

Breakdown of module hours

Learning and teaching hours	30 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	6 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	164 hrs
Placement / work based learning	0 hrs
Guided independent study	0 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	
With effect from date	September 2023
Date and details of revision	
Version number	1

Module aims

This module will develop the student's knowledge and understanding of canine anatomy and physiology at both a systems and cellular level. The module will integrate physiology and pathophysiology to develop a student's understanding of disease states. Principles of genetics, linking to the breeding process will be covered in this module.

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

1	Identify anatomical structures and their location, using correct terminology.
2	Recognise normal and abnormal animal physiology at a systems and cellular level.
3	Identify the different stages and care required in dog breeding, including the role of genetics in the breeding process.

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.

Assessment 1: Group narrated presentation: Breeding stages, care and the role of genetics. (1500-word equivalent)

Assessment 2: In-class test (unseen, 1.5 hours – multiple choice questions (MCQ) / short answer questions / problem-based questions).

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

Derogations

N/A

Learning and Teaching Strategies

A range of learning and teaching strategies will be employed, and all will focus on student centred teaching. Delivery of content will be blended with online sessions and lectures conducted in a lecture room and the clinical suite to apply theory to practice. The emphasis will be on active learning for each session delivered.

Indicative Syllabus Outline

Structures at the cellular level and structures of the body system, location and landmarks, definitions and terminology. To include; skeletal system, muscular system, integument, nervous system including senses, cardiovascular system, respiratory system, lymphatic system, endocrine system, digestive system, liver, renal system, reproductive system.

Normal physiology at a systems and cellular level. To include; skeletal system, muscular system, integument, nervous system including senses, cardiovascular system, respiratory system, lymphatic system, endocrine system, digestive system, liver, renal system, reproductive system. Homeostasis and the homeostatic regulatory mechanisms in organ systems in health and pathophysiology, body temperature regulation, blood glucose regulation, fluid regulation, blood pressure, waste product concentration.

Cell division, mitosis and meiosis, Mendel's Laws, genetic code, patterns of Mendelian inheritance, Punnett squares, genotype, phenotype, congenital defects, application to practice, screening, role of the Kennel Club and British Veterinary Association, future implications, breeding strategies, neutering protocols, breeding practices, mating, antenatal care, parturition process, dystocia, assisted delivery, resuscitating, neonatal care.

Indicative Bibliography:

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

Essential Reads

Aspinall, V. and Cappello, M. (2019), *Introduction to Veterinary Anatomy and Physiology Textbook*. 4th ed. Edinburgh: Elsevier.

Other indicative reading

Klein, B.G. (2019) *Cunningham's Textbook of Veterinary Physiology*, 6th ed. Missouri: Elsevier.

Singh, B. (2016), *Saunders Veterinary Anatomy Colouring Book*. 2nd ed. St Louis: Elsevier

Employability skills – the Glyndŵr Graduate

Each module and programme is designed to cover core Glyndŵr Graduate Attributes with the aim that each Graduate will leave Glyndŵr having achieved key employability skills as part of their study. The following attributes will be covered within this module either through the content or as part of the assessment. The programme is designed to cover all attributes and each module may cover different areas.

Core Attributes

Engaged
Creative
Ethical

Key Attitudes

Commitment
Curiosity
Confidence

Practical Skillsets

Digital Fluency
Organisation
Leadership and Team working
Communication