MODULE SPECIFICATION

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Refer to guidance notes for completion of each section of the specification.

Module Code:	VEN404

Module Title:	Introduction to Animal Anatomy and Physiology in Health and Disease

Level:	4	**Credit Value:**	20

Cost Centre(s):	GAAN	JACS3 **code**: HECoS code:	D310 / 100532

Faculty	Social and Life Sciences	**Module Leader:**	Dr Tami Young

Scheduled learning and teaching hours	36 hrs
Total contact hours	36 hrs
Guided independent study	164 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered (not including exit awards)	Core	Option
Foundation Degree (FdSc) Veterinary Nursing	✓	☐

Pre-requisites
N/A

Office use only
Initial approval: 5/11/2019 Version no: 1
With effect from: 28/9/2020
Date and details of revision: Version no:

Module Aims
This module will develop the student's knowledge and understanding of animal anatomy and physiology at both a systems and cellular level. The module will relate primarily to the dog and cat but will include other species* 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. * range of species in addition to cats and dogs holders of veterinary nursing degrees should be competent in providing nursing care to animals that are commonly kept as pets in the UK. This will include rabbits, small mammals and appropriate species of reptiles and birds. In addition to the above animals, a level of basic knowledge and competence in the husbandry and nursing care of horses, endemic UK wildlife and exotic species not commonly seen in the UK (QAA Subject benchmark statement, Veterinary Nursing, 2019).

Module Learning Outcomes - at the end of this module, students will be able to	
1	Identify anatomical structures and their location, using correct terminology relevant to veterinary nursing.
2	Recognise normal and abnormal animal physiology at a systems and cellular level.
3	Identify the different stages and care required in cat and dog breeding, including the role of genetics in the breeding process.

Employability Skills **The Wrexham Glyndŵr Graduate**	**I = included in module content** **A = included in module assessment** **N/A = not applicable**
Guidance: complete the matrix to indicate which of the following are included in the module content and/or assessment in alignment with the matrix provided in the programme specification.	
CORE ATTRIBUTES	
Engaged	I
Creative	A
Enterprising	N/A
Ethical	I and A
KEY ATTITUDES	
Commitment	I
Curiosity	I and A
Resilient	N/A

Confidence	I and A
Adaptability	N/A
PRACTICAL SKILLSETS	
Digital fluency	A
Organisation	I and A
Leadership and team working	A
Critical thinking	N/A
Emotional intelligence	N/A
Communication	I and A

Derogations
N/A

Assessment:
Indicative Assessment Tasks:
Formative assessment tasks: Various quizzes / Padlet board / peer review practical sessions A range of modalities will be used by the tutor to provide feedback to students. **Summative assessment tasks** Assessment 1: Group narrated Sway presentation. 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 and 2	In-class test	60%

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 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.

Reference Points:

QAA Subject Benchmark Statement for Veterinary Nursing
https://www.qaa.ac.uk/docs/qaa/subject-benchmark-statements/subject-benchmark-statement-veterinary-nursing.pdf?sfvrsn=def3c881_4

Syllabus outline:
Learning outcome 1 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. Learning outcome 2 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. Learning outcome 4 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 / breeding practices / mating / antenatal care / parturition process / dystocia / assisted delivery / resuscitating / neonatal care.

Indicative Bibliography:

Essential reading

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

Colville, T. and Bassert, J.M. (2015) *Clinical Anatomy and Physiology for Veterinary Technicians.* 3rd ed. Missouri: Elsevier.

Other indicative reading

Ackerman, N. (ed.) (2016), *Aspinall's Complete Textbook of Veterinary Nursing*. 3rd ed. Edinburgh: Elsevier.

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.