HARTPURY UNIVERSITY

Module Descriptor

Part 1: Basic Data						
Module Title	Applied Animal Nutrition					
Module Code	HANXSP-15-5		Level	5	Version	2.0
Credit Rating	15		ECTS Credit Rating	7.5		
Teaching Institution	Hartpury	Department	Animal and Agriculture	Module Type	Standard	
Contributes towards	BSc (Hons) Applied Animal Science with Therapy					
Professional Accrediting Body	None		Module Entry requirements	None		
Pre-requisites	HANXK5-15-4 Animal Nutrition		Excluded Combinations	None		
Most recent Validation Date	21 March 2022		Due for re-validation by	01 September 2027		
Amendment Approval Date			Approved with effect from	V2.0 - 01 September 2022		

Part 2: Module Content	
Learning Outcomes	On successful completion of this module students will be able to: 1 Analyse the feeding values of a variety of foodstuffs available for animals (B). 2 Relate feeding behaviour to animal husbandry and productivity, taking into consideration physiological and welfare factors (A). 3 Justify the nutrient and energy requirements of animals based on scientific concepts and principles at different stages of their lives (A, B). 4 Design and evaluate diets using the principles of scientific rationing whilst understanding their limitations (B). 5 Assess the implications of the legislation surrounding the animal feed industry and review the benefits for animal and human health (A). 6 Design and format a ration formulation spreadsheet to match the supply nutrients and energy with the animal's requirements (B).
Syllabus Outline	• Classification and availability of foodstuffs and their suitability for different animals, commercial manufacture of animal feeds and legislation. • Nutrient requirements of animals at different stages in their lives: maintenance, working, reproduction, production and old age. • Scientific rationing, formulation and its limitations: systems of rationing; use of formulae, excel spreadsheets; animal requirements and feed data handling; comparisons with rations actually fed to different species of animals. • Effects of deficiencies and excesses of feed constituents: protein, vitamins, minerals. • Application of scientific principles and concepts surrounding different energies, vitamins and minerals and anti-nutritive factors to animal diets.

	• Implications of animal behaviour and management on animal nutrition and gastro-intestinal disorders

Part 3: Learning, Teaching and Assessment	
Description of Learning and Teaching	***Scheduled learning*** May include lectures, seminars, tutorials, project supervision, demonstration, practical classes, external visits. ***Independent learning*** May include hours engaged with essential reading, case study and/or seminar preparation, assignment preparation and completion etc. ***Virtual learning environment (VLE) (or equivalent)*** This module is supported by a VLE where students will be able to find all necessary module information. Direct links to information sources will also be provided from within the VLE (or equivalent).
Resource Strategy	**Essential reading** Essential material will be indicated to the student via pre-course material, module guides and through their accessing a dedicated VLE presence. No requirement for the purchase of set text(s) will be made unless explicitly stated and students will have full access to library services, online applications, and inter-library loans. **Further reading** Students are expected to identify all other reading relevant to their chosen topic for themselves. They will be required to read widely using the library catalogue, a variety of bibliographic and full text databases, and Internet resources. Many resources can be accessed remotely. The purpose of this further reading is to ensure students are familiar with current research, classic works and material specific to their interests from the academic literature and wider professional sources. **Access and skills** Formal opportunities for students to develop their library and information skills are provided within the induction period and student skills sessions. Additional support is available through online resources. This includes interactive tutorials on finding books and journals, evaluation information and referencing. Sign up workshops are also offered.
Assessment Strategy	This module will be assessed according to the approved Hartpury Academic Regulations including any specific regulations detailed within the student's programme specification. The written examination has been chosen to facilitate broad assessment of the knowledge and understanding and intellectual skills gained throughout the module in a time-limited and controlled setting. The report is chosen to facilitate in depth utilisation of laboratory skills gained in practicals and relating findings/observations to material learnt in lectures and gained in additional study via analysis, evaluation and discussion. A student may apply for alternative means of assessment if appropriate. Each application will be considered on an individual basis taking into account learning and assessment needs. For further information regarding this please refer to the VLE.

Identify final assessment component and element	A1	
% weighting between components A and B (Standard modules only)	**A:** **50%**	**B**: **50%**

First Sit	
Component A **Description of each element**	**Element weighting** **(as % of component)**
1. Written examination (1 hour)	100%
Component B **Description of each element**	**Element weighting** **(as % of component)**
1. Report (1,250 words)	100%

Resit (further attendance at taught classes is not required)	
Component A **Description of each element**	**Element weighting** **(as % of component)**
1. Written examination (1 hour)	100%
Component B **Description of each element**	**Element weighting** **(as % of component)**
1. Report (1,250 words)	100%
If a student is permitted a retake of the module under the Academic Regulations, the assessment will be that indicated by the Module Specification at the time that retake commences.	

Part 4: Unistats Information

Unistats Information

The Office for Students (OfS) require Unistats information to be produced at programme level for all undergraduate programmes of more than one year in length. These are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.

Expected learning hours for the module:

Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours
150	36	114	0

Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description:

Total assessment of the module	Percentage
Written Examination (Written Examination)	50%
Coursework (Report)	50%
Practical Examination (Practical Skills Examination / Practical Skills Assessment / Oral Assessment)	0%
Total	100%

Module Amendment Log

Module Title:	Applied Animal Nutrition
Module Code:	HANXSP-15-5
Initial Approval Date:	01 September 2017

Approved Module Changes (most recent at the top):

Current version number: 1.2

Outline Change Details:

1. Document amended to meet requirements of new 2022 template.
2. Part one: contributes towards - BSc (Hons) Animal Science, BSc (Hons) Applied Animal Science, FdSc Animal Science and Management, FdSc Veterinary Nursing Science (SW) and FdSc Equine Veterinary Nursing Science (SW) removed. Animal Husbandry for Veterinary Nurses (HVNXNT-15-4) removed as pre-requisite
3. Assessment descriptors and lengths altered
4. Component B changed to coursework instead of practical examination to fall in line with HU assessment terminology. Unistats changed from 50% practical exam to 50% coursework

Material Alteration: Yes and is accompanied by the relevant programme specifications and/or course marketing information.

Rationale: Module aligned to Hartpury academic curriculum framework.

1. To ensure accuracy.
2. To align with academic curriculum framework

Module description for Course Marketing Purposes:

Study key nutritional principles and learn how these relate to health and disease in animals.

Change requested by: Wanda McCormick

I can confirm that all programme managers have been consulted and support this change
I can confirm that student representatives have been consulted about this change
I have retained evidence of this consultation which has been placed in the Module File

Signature: W McCormick **Date**: 24/01/2022

Name of Head of Department: Wanda McCormick

- I confirm that this change does not require additional resources beyond the scope of those already present or planned for by the department, and have / have not included a completed Resource Impact and Authorisation Form
- I can confirm that this change does not require a change to the HECOS code

Signature: W McCormick **Date**: 24/01/2022

Approval Committee and Date:	Refresh Approval Panel action 2022 03 21
Change approved with effect from:	01 September 2022
Resulting new HECOS code:	100523 Animal Science
Resulting new version number:	2.0

Current version number: 1.1

Outline Change Details: update of pre-requisites to remove module HANXGQ-20-4: module no longer running.

Approval Committee and Date:	CVC 2019 08 06
Change approved with effect from:	01 September 2019
Resulting new version number:	1.2

Current version number: 1.0

Outline Change Details: Adopting new naming system for programmes

Material Alteration: No

Rationale: To reflect the Hartpury Academic Regulations	
Change requested by: Academic Registrar **Signature**:  **Date**: 01 August 2018	
Approval Committee and Date:	Curriculum Validation Committee 2018 08 31
Change approved with effect from:	01 September 2018
Resulting new version number:	1.1

Initial HECOS code:	100523 Animal Science
Initial module description for Course Marketing Purposes: Study key nutritional principles and learn how these relate to health and disease in animals.	