Programme Specification

Part 1: Basic Data			
Awarding Institution	Hartpury University		
Teaching Institution	Hartpury		
Delivery Location	Hartpury		
Study abroad / Exchange / Credit recognition	None		
Department responsible for programme	Animal		
Programme Title	BSc (Hons) Applied Animal Science		
Professional Statutory or Regulatory Body Links	None		
Highest Award Title	BSc (Hons) Applied Animal Science BSc (Hons) Applied Animal Science with Integrated Placement Year		
Default Award Title	None		
Interim Award Titles	BSc Applied Animal Science Bsc Applied Animal Science with Therapy DipHE Applied Animal Science CertHE Animal Science Cert Animal Science		
Mode(s) of Study	Full time/ Integrated Placement /Part time		
Codes	**UCAS:** Year 1: D320A Foundation Year: DF20	**JACS:** D300	
	UNIT-e: BSHAAASX	**HESA:**	
Relevant QAA Subject Benchmark Statements	Agriculture, Horticulture, Forestry, Nutrition, Food and Consumer Sciences.		
Last Major Approval Date	31 August 2018	Valid from	1 September 2018
Amendment Approval Date		Amended with effect from	
Version	5.0		
Review Due By	1 September 2024		

Part 2: Educational Aims of the Programme

The programme focuses on preparing individuals to become competent, flexible and accountable animal scientists. It enables students to gain a working understanding and critical awareness of the problems and/or new insights in the field of animal science, including issues pertaining to the area of animal health, nutrition and modern reproductive techniques. The programme will prepare the learner with a foundation for lifelong learning and:

1. Builds on basic scientific principles to develop a knowledge and understanding of the animal in health and disease and uses this knowledge to study animals in the context of present day industry and environment.
2. Provides students with the opportunity to think constructively and critically, discuss and evaluate concepts and theories in the field of animal science, propose sound and reasoned solutions to problems and show clear developments of these skills as a result of the programme.
3. Allows students to choose from a range of options appropriate to their needs, while maintaining a coherent programme of study.
4. Assesses the abilities of the students in a rigorous but constructive way.
5. Meets the needs of the industry sector providing the foundation for a range of careers.
6. Provides students with the ability to transfer skills to different working environments.
7. Assists students to be adaptable to the changing demands of business and society.
8. Provides high quality education and professional development, supported by a strong base of creative and applicable research.
9. Enables students to progress into postgraduate study or research.
10. Subscribes and contributes to the philosophy and operation of the institutions Undergraduate Modular Scheme.

Programme requirements for the purposes of the Higher Education Achievement Record (HEAR)

The programme structure presents a coherent degree, constituting a wide range of options with clear streams running through. This will allow students to undertake modules most relevant to them, whilst developing their scientific understanding crucial to the industry. Industry links through onsite commercial enterprises will support delivery, such as Home Farm, canine hydrotherapy and the Equine Therapy Centre. An optional year work placement allows theory to be integrated into practice. This is all facilitated through long standing links with a wide range of animal-based industries, such as charities, NGOs, zoos, animal rescue centres, boarding kennels and laboratories, amongst others.

If a student has chosen a year work placement, their award title is BSc (Hons) Applied Animal Science (IP).

Part 3: Programme Structure

This structure diagram demonstrates the student journey from Entry through to Graduation for a typical **full time student**, including:

1 level and credit requirements
2 interim award requirements
3 module diet, including compulsory and optional modules

	Compulsory Modules	Optional Modules	Awards
Foundation Year	Foundation Skills Development (HANV8A-30-3) Academic Skills in Practice (HANV8B-30-3) Reviewing Literature (HANV8C-15-3) Foundation Animal Studies (HANV8G-15-3) Foundation Biological Principles (HANV8E-30-3)	Not applicable.	<u>CertHE Animal Science</u> Requirements: 120 credits at level 3 or above of which not less than 90 are at level 4 or above. <u>DipHE Applied Animal Science</u> Requirements: 240 credits at level 3 or above of which not less than 210 are at level 4 or above and not less than 90 at level 5 or above. <u>BSc Applied Animal Science</u> Requirements: 300 credits at level 3 or above of which not less than 270 are at level 4 or above, not less than 150 at level 5 or above and not less than 60 at level 6 or above. <u>BSc Applied Animal Science with Integrated Placement Year</u> Requirements: 300 credits at level 3 or above of which not less than 270 are at level 4 or above, not less than 150 at level 5 or above and not less than 60 at level 6 or above. This must include the Year Work Placement module. <u>BSc (Hons) Applied Animal Science</u> Credit Requirements: 360 credits at level 3 or above of which not less than 330 are at level 4 or above, not less than 210 are at level 5 or above and not less than 90 at level 6 or above. This must include all compulsory modules. <u>BSc (Hons) Applied Animal Science with Integrated Placement Year</u> Credit Requirements: 360 credits at level 3 or above of which not less than 330 are at level 4 or above, not less than 210 are at level 5 or above and not less than 90 at level 6 or above. This must include all compulsory modules and the Year Work Placement module.
Year 1	Anatomy and Physiology (HANXNW-30-4) Animal Genetics (HANXNV-15-4) Animal Health and Disease (HANXKK-15-4) Animal Nutrition (HANXK5-15-4) Biodiversity (HANXK6-15-4) Animal Behaviour and Welfare (HANV83-15-4) Fundamental Skills for the Animal Scientist (HANV69-15-1)	Not applicable.	
Year 2	Applied Animal Nutrition (HANXSP-15-5) Undergraduate Research Process (HANXU5-15-5)	Students are normally required to select 90 credits from the optional modules listed below: Animal Microbiology (HANXRK-15-5) Animal Production (HANXSL-15-5) Animal Reproductive Physiology (HANXRM-15-5) Animal Therapy 1 (HANXU4-15-5) Applied Animal Health and Disease (HANXSN-30-5) Behavioural Measurement HANXSS-15-5) Ethics and Welfare (HANXSW-15-5) Field Course (HANXSY-15-5) Independent Report (HANXRX-15-5) Management of Domestic Animals (HANXT8-30-5) International Academic Study Portfolio (HANXRP-15-5) International Academic Study Project (HANXRQ-30-5) International Academic Study Extended Project (HANXRR-45-5)	
Year Out	Year Work Placement (UINVK6-15-2)		
Year 3	Developments in Animal Science (HANV3G-15-6) Undergraduate Dissertation (HANV3R-45-6)	Students are normally required to select 60 credits from the optional modules listed below: Advanced Animal Microbiology (HANV4T-15-6) Advanced Animal Nutrition (HANV4S-15-6) Advanced Animal Production (HANV4V-15-6) Animal Psychology (HANV4X-15-6) Animal Therapy 2 (HANV36-15-6) Anthrozoology (HANV38-15-6) Biodiversity and Conservation (HANV39-15-6) Epidemiology (HANV3H-15-6) Wildlife and Zoo Management (HANV3N-15-6) Undergraduate Independent Study (HANV3M-15-6)	

Part time:
The following structure diagram demonstrates an example of the student journey from Entry through to Graduation for a typical **part time student.**

		Compulsory Modules	Optional Modules	Interim Awards
	Foundation Year	Foundation Skills Development (HANV8A-30-3) Academic Skills in Practice (HANV8B-30-3) Reviewing Literature (HANV8C-15-3) Foundation Animal Studies (HANV8G-15-3) Foundation Biological Principles (HANV8E-30-3)		<u>CertHE Animal Science</u> Requirements: 120 credits at level 3 or above of which not less than 90 are at level 4 or above. <u>DipHE Applied Animal Science</u> Requirements: 240 credits at level 3 or above of which not less than 210 are at level 4 or above and not less than 90 at level 5 or above. <u>BSc Applied Animal Science</u> Requirements: 300 credits at level 3 or above of which not less than 270 are at level 4 or above, not less than 150 at level 5 or above and not less than 60 at level 6 or above. <u>BSc Applied Animal Science with Integrated Placement Year</u> Requirements: 300 credits at level 3 or above of which not less than 270 are at level 4 or above, not less than 150 at level 5 or above and not less than 60 at level 6 or above. This must include the Year Work Placement module. <u>BSc (Hons) Applied Animal Science</u> Credit Requirements: 360 credits at level 3 or above of which not less than 330 are at level 4 or above, not less than 210 are at level 5 or above and not less than 90 at level 6 or above. This must include all compulsory modules. <u>BSc (Hons) Applied Animal Science with Integrated Placement Year</u> Credit Requirements: 360 credits at level 3 or above of which not less than 330 are at level 4 or above, not less than 210 are at level 5 or above and not less than 90 at level 6 or above. This must include all compulsory modules and the Year Work Placement module.
	Year 1.1	Anatomy and Physiology (HANXNW-30-4) Animal Genetics (HANXNV-15-4) Fundamental Skills for the Animal Scientist (HANV69-15-1)		
	Year 1.2	Animal Nutrition (HANXK5-15-4) Biodiversity (HANXK6-15-4) Animal Behaviour & Welfare (HANV83-15-1) Animal Health and Disease (HANXKK-15-4)		
	Year 2.1	Undergraduate Research Process (HANXU5-15-5)	Management of Domestic Animals (HANXT8-30-5) Animal Therapy 1 (HANXU4-15-5)	
	Year 2.2	Applied Animal Nutrition (HANXSP-15-5)	Animal Reproductive Physiology (HANXRM-15-5) Field Course (HANXSY-15-5) Ethics and Welfare (HANXSW-15-5)	
	Year Out	Year Work Placement (HANVK6-15-5)		
	Year 3.1	Developments in Animal Science (HANV3G-15-6)	Biodiversity and Conservation (HANV39-15-6) Animal Therapy 2 (HANV36-15-6) Anthrozoology (HANV38-15-6) Advanced Animal Nutrition (HANV4S-15-6)	
	Year 3.2	Undergraduate Dissertation (HANV3R-45-6)	Wildlife and Zoo Management (HANV3N-15-6) Epidemiology (HANV3H-15-6)	

Part 4: Learning Outcomes of the Programme

The award route provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes in the following areas:

Learning Outcomes:	**Anatomy and Physiology**	**Animal Genetics**	**Animal Behaviour & Welfare**	**Biodiversity**	**Animal Nutrition**	**Fundamental Skills for the Animal Scientist**	**Animal Health and Disease**	**Undergraduate Research Process**	Applied Animal Health and Disease	Management of Domestic Animals	Animal Production	Animal Therapy I	Animal Reproductive Physiology	Behavioural Measurement	**Applied Animal Nutrition**	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	**Year Work Placement**	**Undergraduate Dissertation**	Epidemiology	Advanced Animal Nutrition	Advanced Animal Production	Biodiversity and Conservation	Wildlife and Zoo Management	**Developments in Animal Science**	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Animal Therapy 2	Undergraduate Independent Study
A) Knowledge and understanding of:																																			
1 The ability to analyse and evaluate the problems and/or new insights in the field of animal science, with respect to nutrition, reproduction and animal health.	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓		✓	✓				✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2 A comprehensive knowledge of anatomical, physiological and nutritional principles related to animal health and disease.	✓				✓		✓		✓	✓	✓	✓	✓		✓					✓	✓	✓			✓	✓	✓		✓	✓				✓	✓
3 The ability to apply underpinning principles of genetics to the health of an animal.		✓					✓		✓	✓	✓		✓							✓	✓	✓			✓		✓		✓						
4 An appreciation of the application, development and ethical considerations of reproduction technologies.		✓								✓	✓		✓						✓	✓	✓	✓					✓		✓	✓					

Learning Outcomes:	**Anatomy and Physiology**	**Animal Genetics**	**Animal Behaviour & Welfare**	**Biodiversity**	**Animal Nutrition**	**Fundamental Skills for the Animal Scientist**	**Animal Health and Disease**	**Undergraduate Research Process**	Applied Animal Health and Disease	Management of Domestic Animals	Animal Production	Animal Therapy I	Animal Reproductive Physiology	Behavioural Measurement	**Applied Animal Nutrition**	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	**Year Work Placement**	**Undergraduate Dissertation**	Epidemiology	Advanced Animal Nutrition	Advanced Animal Production	Biodiversity and Conservation	Wildlife and Zoo Management	**Developments in Animal Science**	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Animal Therapy 2	Undergraduate Independent Study
5 The ability to apply the knowledge gained during the programme, together with an understanding of how established techniques of research and enquiry are used to create and interpret knowledge in the applied science discipline.						✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(B) Intellectual Skills																																			
1 Use problem solving skills and decision making strategies to support the problems and/or new insights in the field of animal science, nutrition, reproduction and animal health.	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2 Use skills of reflection, evaluation and critical thinking to support an effective understanding of anatomical, physiological and nutritional principles related to animal health and disease.									✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓			✓	✓	✓			✓			✓	✓	✓

Learning Outcomes:	**Anatomy and Physiology**	**Animal Genetics**	**Animal Behaviour & Welfare**	**Biodiversity**	**Animal Nutrition**	**Fundamental Skills for the Animal Scientist**	**Animal Health and Disease**	**Undergraduate Research Process**	Applied Animal Health and Disease	Management of Domestic Animals	Animal Production	Animal Therapy I	Animal Reproductive Physiology	Behavioural Measurement	**Applied Animal Nutrition**	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	**Year Work Placement**	**Undergraduate Dissertation**	Epidemiology	Advanced Animal Nutrition	Advanced Animal Production	Biodiversity and Conservation	Wildlife and Zoo Management	**Developments in Animal Science**	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Animal Therapy 2	Undergraduate Independent Study
3 Demonstrate the ability to apply critical evaluation and informed decision making when discussing modern reproductive techniques used in the animal industries.										✓	✓		✓						✓	✓	✓	✓					✓		✓	✓					
4 Demonstrate the ability to undertake sustained study applying deeper cognitive learning to an aspect of animal science.								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5 Critically evaluate an aspect of animal science based on systematic rigorous research processes which highlights both implications and recommendations for developing current and future practice.								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6 Use skills of reflection, evaluation and critical thinking to support an effective understanding of current legislation in relevant agricultural and animal related polices both in the United Kingdom and Europe.			✓						✓	✓	✓	✓						✓	✓	✓	✓	✓	✓				✓	✓	✓						

Learning Outcomes:	**Anatomy and Physiology**	**Animal Genetics**	**Animal Behaviour & Welfare**	**Biodiversity**	**Animal Nutrition**	**Fundamental Skills for the Animal Scientist**	**Animal Health and Disease**	**Undergraduate Research Process**	Applied Animal Health and Disease	Management of Domestic Animals	Animal Production	Animal Therapy I	Animal Reproductive Physiology	Behavioural Measurement	**Applied Animal Nutrition**	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	**Year Work Placement**	**Undergraduate Dissertation**	Epidemiology	Advanced Animal Nutrition	Advanced Animal Production	Biodiversity and Conservation	Wildlife and Zoo Management	**Developments in Animal Science**	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Animal Therapy 2	Undergraduate Independent Study
7 Demonstrate a commitment to continuing professional development and lifelong learning through the development of skills in relation to self directed and independent study.						✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(C) Subject/Professional/Practical Skills																																			
1 Undertake skilled and competent evaluative and practical animal science skills;	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2 Communicate effectively with individuals, establishing professional and ethical relationships;	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3 Maintain the standards and practices required of the industry;	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4 Recognise moral/ethical dilemmas and issues;							✓		✓	✓								✓	✓	✓	✓	✓		✓						✓	✓				
5 Perform professional tasks exercising personal responsibility and a capacity to make decisions appropriate to the role in the animal science industries.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(D) Transferable skills and other attributes																																			

Learning Outcomes:		**Anatomy and Physiology**	**Animal Genetics**	**Animal Behaviour & Welfare**	**Biodiversity**	**Animal Nutrition**	**Fundamental Skills for the Animal Scientist**	**Animal Health and Disease**	**Undergraduate Research Process**	Applied Animal Health and Disease	Management of Domestic Animals	Animal Production	Animal Therapy I	Animal Reproductive Physiology	Behavioural Measurement	**Applied Animal Nutrition**	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	**Year Work Placement**	**Undergraduate Dissertation**	Epidemiology	Advanced Animal Nutrition	Advanced Animal Production	Biodiversity and Conservation	Wildlife and Zoo Management	**Developments in Animal Science**	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Animal Therapy 2	Undergraduate Independent Study
1	Communicate effectively with a wide range of individuals using a variety of means;	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	Evaluate their own academic, vocational and professional performance;						✓			✓									✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	Utilise problem solving skills in a variety of theoretical and practical situations;	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	Manage change effectively and respond to changing demands;	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	Take responsibility for personal and professional learning and development;	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	Manage time, prioritise workloads and recognise and manage personal emotions and stress;	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	Understand career opportunities and challenges ahead and begin to plan a career path;						✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Learning Outcomes:	**Anatomy and Physiology**	**Animal Genetics**	**Animal Behaviour & Welfare**	**Biodiversity**	**Animal Nutrition**	**Fundamental Skills for the Animal Scientist**	**Animal Health and Disease**	**Undergraduate Research Process**	Applied Animal Health and Disease	Management of Domestic Animals	Animal Production	Animal Therapy I	Animal Reproductive Physiology	Behavioural Measurement	**Applied Animal Nutrition**	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	**Year Work Placement**	**Undergraduate Dissertation**	Epidemiology	Advanced Animal Nutrition	Advanced Animal Production	Biodiversity and Conservation	Wildlife and Zoo Management	**Developments in Animal Science**	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Animal Therapy 2	Undergraduate Independent Study
8 Use information management skills, for example: information technology, library resources, the use of information technology in the workplace.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Part 5: Student Learning and Student Support

Teaching and learning strategies to enable learning outcomes to be achieved and demonstrated

There is a policy for a minimum average requirement of 15 hours in year one and 12 hours/week contact time over the course of the full undergraduate programme. This contact time encompasses a range of face: face activities as described below. In addition a range of other learning activities will be embedded within the programme which, together with the contact time, will enable learning outcomes to be achieved and demonstrated.

On the BSc (Hons) Applied Animal Science programme there is a mixture of teaching approaches including:

Scheduled learning
Includes lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; external visits; work based learning; supervised time in studio/workshop. Scheduled sessions may vary slightly depending on the module choices made. Within the Foundation Year a feature will be the facilitated workshops and individual study, enabling students to benefit from small-group study.

Independent learning
Includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc. Scheduled sessions may vary slightly depending on the module choices made.

Placement learning
May include a placement in industry when completing the Work Placement module.

International Academic Study
Within this programme there is an opportunity to gain academic credit for a period of studying abroad. The student would be supported to identify an opportunity of interest, which may be with established institutions partners or by individual arrangement. All periods of study abroad would have to meet the institutions requirements before enrolment on the International Academic Study opportunity modules.

Virtual Learning Environment (VLE) (or equivalent)
This specification 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.

Careers
To support learner's career preparations, careers personnel visit the institution on a regular basis and the students can use all the on line resources. Tutors will also offer subject specific careers advice through module sessions or individual tutorials. Careers Fairs are arranged periodically to allow students to engage directly with employers from the industry sector.

Description of any Distinctive Features

The purpose of the programme is to provide a balance of academic study and practical learning that is intellectually challenging, vocationally relevant, and provides a foundation for pursuing a career within the animal industry. The student will be equipped with the ability and knowledge required by employers. The programme has been designed to build on the competencies of a wide spectrum of students who should be capable of taking up appropriate positions of responsibility within the varied range of enterprises to be found within the animal based industries. Practicals and industry based visits will underpin the students' academic knowledge whilst giving the student the opportunity to practice and develop practical skills required.

Having entry points into both a Foundation Year and Level Four, enables the programme experience to facilitate the development of a successful undergraduate supporting a wide range of study

backgrounds. The Foundation Year will prepare students with general study skills and opportunities to develop subject specific skills and knowledge. Additionally the Foundation year includes an internship enabling a student to put their skills into practice and develop an early appreciation of employment opportunities and attributes necessary for enhanced employability.

Core modules in year 1 provide the student with a basic understanding of the physiology of animals in relation to anatomy, nutrition and reproductive technology as well as developing investigative skills for research. This knowledge is extended in the subsequent modules in year 2 with the option modules enabling the student to specialise in areas of particular interest to them, for example wildlife conservation, animal health and welfare, animal production and breeding, animal management and nutrition. These themes will be further developed in final year modules with an increased focus on research and independent study to enable progression to further study and application to industry.

Work in the laboratory and field provides students with experience in the application of the theories learned in lectures. The programme utilises the extensive land and animal facilities present on site including the farm (which includes a diary unit, a flock of Romney X Cheviots sheep and a red deer herd) and the animal care department (which has an extensive range of small and large mammals and vivarium species including reptiles, amphibians and invertebrates). Guest lecturers and visits to external organisations (including Bristol Zoo, Sequani, Guide Dogs etc.) allow students to appreciate how these theories are applied in commercial organisations and real-life situations.

There are also two optional residential field trips available as part of the programme. A field course module to South Africa runs in the second year of the programme. This provides students with an opportunity to explore African ecology and ethology. In the third year of the course there is a residential zoo/wildlife park visit as part of the Wildlife and Zoo Management module. This trip enables students to identify and evaluate the environmental and behavioural needs of a range of non-domestic animal species and provides the opportunity to investigate the necessary criteria for the reintroduction of animals into the wild.

After consultation with the Vocational Panel members it was recommended that students have the opportunity to engage with the animal industry in the form of a placement. As a result, students will be encouraged to undertake an optional placement module where they will gain both practical and business knowledge in the animal industry.

Learners will be supported throughout the programme via online web-based support such as the VLE, electronic resources through the institutions Learning Resource Centre and individual tutorial sessions with a designated tutor.

Through complementary studies students are able to acquire generic professional qualifications such as first aid, health and safety, and risk assessment, alongside industry specific certificates such as Safe Use of Veterinary Medicines. As well as being able to join the institutions Students Union and associated societies, it will also be possible to join the Land and Animal Biology Society (LABS) which is administered by the institutions students, in order to offer animal and land-based activities to complement formal programme studies.

This programme offers the opportunity for students to undertake an approved Exchange Programme, for an agreed period (one/two semesters), of overseas study at a higher education institution studying modules appropriate to their programme aims and which have been pre-approved by the Programme Manager. The Exchange Programme is dependent on an approved agreement between the institution and an approved International Institution for BSc (Hons) Animal Science.

Part 6: Assessment

This module will be assessed according to the Academic Regulations published for the academic year on the website http://www.hartpury.ac.uk

Assessment Strategy

Assessment strategy to enable the learning outcomes to be achieved and demonstrated:

Assessment within the Foundation Year had been designed to prepare a student for the assessment to come in following years. As such, it demonstrates a breadth of type and gradual introduction to the expectations for HE level study.

Individuals learn through different methods, hence a range of teaching and assessment techniques are used throughout the programme. Theoretical lectures, practicals (computer based, laboratory, farm and estate), seminars and debates, industry based visits and guest speakers from within the industry enhance the students' academic knowledge, whilst giving the student the opportunity to practice and develop applied skills needed for industry. Module assessments are designed to apply the knowledge and experience gained from these learning opportunities to a real world context using a range of skills.

In line with the institutions commitment to facilitating equal opportunities, 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.

Assessment Map

The programme encompasses a range of **assessment methods** and these are detailed in the following assessment map:

Assessment Map for BSc (Hons) Applied Animal Science/BSc (Hons) Applied Animal Science (IP)

		Type of Assessment*									
		Unseen Written Exam	Open Book Written Exam	In-class Written Test	Practical Exam	Practical Skills Assessment	Oral assessment and/or presentation	Written Assignment	Report / Project	Dissertation	Portfolio
Compulsory Modules Foundation Year	Foundation Skills Development	A (25)				B (75)					
	Academic Skills in Practice						A (25)		B (75)		
	Reviewing Literature							(A100)			
	Foundation Animal Studies			B (50)			A (50)				
	Foundation Biological Principles				A (50)						B (50)
Compulsory Modules Level 4	Anatomy and Physiology	A (50)			A (25)				B (25)		
	Animal Nutrition	A (50)							B (50)		
	Animal Genetics						A (100)				
	Animal Behaviour & Welfare	A (50)						B (50)			
	Biodiversity	A (50)							B (50)		
	Fundamental Skills for the Animal Scientist					A (100)					
	Animal Health and Disease	A (70)							B (30)		
Compulsory Modules Level 5	Applied Animal Nutrition	A (50)							B (50)		
	Undergraduate Research Process								A (100)		
	Applied Animal Health and Disease	A (60)						B (40)			

Optional Modules Level 5	Management of Domestic Animals					A (30)		B (70)			
	Animal Production	A (50)							B (50)		
	Animal Therapy 1						A (100)				
	Animal Reproductive Physiology	A (50)						B (50)			
	Behavioural Measurement			A (100)							
	Animal Microbiology	A (30)		A (20)				B (50)			
	Independent Report		A (25)						B (75)		
	Field Course						A (25)		B (75)		
	Ethics and Welfare	A (50					B (50)				
	International Academic Study Portfolio										A (100)
	International Academic Study Project						A (25)				B (75)
	International Academic Study Extended Project						A (25)				B (75)
Optional Year	Year Work Placement										A (100)
Compulsory Modules Level 6	Developments in Animal Science	A (100)									
	Undergraduate Dissertation									A (100)	
Optional Modules Level 6	Advanced Animal Microbiology	A (50)				B (50)					
	Advanced Animal Nutrition	A (50)							B (50)		
	Advanced Animal Production	A (60)						B (40)			
	Animal Psychology	A (60)							B (40)		
	Animal Therapy 2	A (75)						B (25)			
	Anthrozoology		A(100)								
	Biodiversity and Conservation						A (30)	B (70)			
	Epidemiology	A (60)						B (40)			
	Wildlife and Zoo Management						A (25)	B (75)			
	Undergraduate Independent Study								A (100)		

*Assessment should be shown in terms of either Written Exams, Practical exams, or Coursework as indicated by the colour coding above.

Part 7: Entry Requirements

Applicants will have achieved entry criteria appropriate for the year of entry, which can be found through the institutions website (www.hartpury.ac.uk).
We also welcome applicants from a diverse range of backgrounds who do not have the entry requirements outlined above. Applicants will be considered on the basis of evidence of personal, professional and educational experience which indicates an applicant's ability to meet the demands of the programme. Where appropriate experience or learning has been gained prior to enrolment on the programme RPL/RPEL may be possible.
Applicants whose first language is not English must also gain a minimum IELTS score of 6.0 prior to entry onto the programme.

Part 8: Reference Points and Benchmarks

Description of ***how*** the following reference points and benchmarks have been used in the design of the programme:

QAA UK Quality Code for HE
Has been used to define the minimum level of achievement that students need to achieve to succeed on this programme and achieve the qualification. It has also been used to inform the academic quality of the programme and enhance the quality of the learning opportunities and the assessment methods used to measure achievement on the programme.

The Standards and Guidelines for Quality Assurance in the European Higher Education Area (ESG) 2015
The programme has been designed considering how it addresses aspects of part one of the ESG. In particular the programme has been designed so that it meets 'the objectives set for them, including the intended learning outcomes. The qualification resulting from a programme should be clearly specified and communicated, and refer to the correct level of the national qualifications framework for higher education and, consequently, to the Framework for Qualifications of the European Higher Education Area.'

Additionally the design and teaching, learning and assessment strategy within this programme encourages the programme to be 'delivered in a way that encourages students to take an active role in creating the learning process, and that the assessment of students reflects this approach'..

Hartpury 2020 Strategy and the Teaching and Research Excellence Strategy 2017-2021
These have been used in designing this programme to ensure that the programme is: learning-centred; underpinned by sound health and safety practices and informed by research and professional practice; inclusive, flexible and accessible, exemplified in particular by the part-time and accelerated study routes; and, provides a diverse assessment diet. Furthermore, the programme aims to produce graduates who: know and value themselves as open-minded, reflective and inter-dependent learners, and participants, employees, self-employed professionals and entrepreneurs in global settings and as global citizens; and, reflect on their own learning and practice, who value others as collaborators in their learning and its exchange.

Assessment within the programme: is an integral part of a dynamic learning and teaching process and not separate from it; plays a key part in the rigorous setting and maintaining of academic standards; provides all students with the entitlement to parity of treatment; makes no distinction between different modes of study; ensures that progression is achieved by credit accumulation and the completion of pre-requisites and co-requisites; recognises different module learning in different forms of assessment; and, affords students the maximum opportunity to demonstrate their knowledge, skills, competencies and overall strengths through a variety of assessed activities.

Staff research projects:
The proposed modules for the Applied Animal Science programme are based on well-established teaching areas within the institution. These modules will be taught by staff who are either research or consultancy active, or actively engaged in scholarly activity, and who bring their current experience to bear on their teaching.

Employer interaction/feedback:
Vocational Panel meetings involve discussions about the purpose of the programme, its distinctiveness as a programme and the skills and knowledge needed to ensure the programme is current and relevant to employers.

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of individual modules can be found in module specifications, available on the Institution's website.

Programme Approval Log

Programme Title:	BSc (Hons) Applied Animal Science
Programme Code:	D320A/ BSHAAASX
Initial Approval Date:	01 September 2017
Approved by:	Hartpury Curriculum Approval Committee
Approved until:	01 September 2023

Version 5

Rationale: After the successful application for University Title, amendments were required to all specifications.	
Material Alteration: Yes and Course Information Sheet amended appropriately: Not required	
Outline Change Details: 1. Part 1: Basic Data requires the Awarding Body to be amended from Hartpury College to Hartpury University. 2. Award Titles amended to replace (SW) with (IP). 3. Removed BUWE B80. 4. Subject Benchmark Statements updated where required.	
Change requested by:	Academic Registrar
CVC approval date:	31 August 2018
Change approved with effect from:	01 September 2018
New version number:	5.0

Version 2.2

Outline Change Details: The information had not been transferred over correctly when the programme changed from version 1 to 2. This has now been amended to correctly show; Introduction to Animal Welfare and Introduction to Animal Behaviour were removed at year 1. Animal Behaviour and Welfare HANV83-15-4 has replaced them**.**	
Rationale: Incorrect information corrected.	
Change requested by:	Tamara Montrose
CVC approval date:	26 June 2018
Change approved with effect from:	01 September 2018

Version 2.1 (2019 intake)

Outline Change Details: Adjustment of assessment for Animal Genetics HANXNV-15-4 To amend assessment from 100% Oral Presentation to 75% Oral Presentation and 25% In-Class Test	
Rationale: To improve assessment balance and student experience.	
Change requested by:	Rachel Collins
CVC approval date:	01 March 2018
Change approved with effect from:	01 September 2019

Version 2

Outline Change Details: Introduction to Animal Welfare and Introduction to Animal Behaviour have been removed at year 1. Animal Behaviour and Welfare HANV83-15-4 has replaced them.	
Rationale: In line with the change on the UWE specification	
Change requested by:	Rosie Scott-Ward
CVC approval date:	01 September 2017
Change approved with effect from:	01 September 2017

Version 1

Outline Change Details: Transferred to be a Hartpury Programme.	
Rationale: Hartpury now has TDAP	
Change requested by:	Rosie Scott-Ward
CVC approval date:	01 September 2017
Change approved with effect from:	01 September 2017