

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) Zoology		
Professional Statutory or Regulatory Body Links	None		
Highest Award Title	BSc (Hons) Zoology BSc (Hons) Zoology with Integrated Placement Year		
Default Award Title	None		
Interim Award Titles	BSc Zoology BSc Zoology with Integrated Placement Year Diploma of Higher Education in Applied Animal Science Certificate of Higher Education in Animal Science Certificate in Animal Science		
Mode(s) of Study	Full time / Part time		
Codes	UCAS: Year 1 D320A Foundation Year DF20	UNIT-e: BSHAZOOX	
Relevant QAA Subject Benchmark Statements	Agriculture, Horticulture, Forestry, Nutrition, Food and Consumer Sciences.		
Last Major Approval Date	31 August 2018	Valid from	V6.1 - 1 September 2018
Amendment Approval Date	V6.3 – 13 February 2019	Amended with effect from	V6.3 – 1 September 2019
Version	6.3		
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 zoology, 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 fields of zoology and 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 in zoology and related animal industries.
6. Provides students with the ability to transfer graduate 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 within the animal sector.
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 BSc (Hons) Zoology produces graduates who understand the global complexity of modern animal sector and who are capable of working with animals across the wildlife, zoo and companion animal industries. Graduates have been exposed to a range of animal management practices which have developed and honed their vocational skills and competencies. They have gained comprehensive knowledge and understanding of zoo and wildlife conservation, animal nutrition, animal welfare, management and business principles. They will possess excellent knowledge and understanding of the field of animal science, and they will be confident and capable of applying their subject knowledge to assist with the practical application of theory to inform decision-making and make a positive difference to animal welfare.

Part 3: Programme Structure for BSc (Hons) Zoology

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 award requirements that are in addition to those described in the Hartpury Academic Regulations
- 3 module diet, including compulsory and optional modules

ENTRY		Compulsory Modules	Optional Modules	Awards
	Foundation Year	Academic Skills in Practice (HANV8B-30-3) Foundation Animal Studies (HANV8G-15-3) Foundation Biological Principles (HANV8E-30-3) Foundation Skills Development (HANV8A-30-3) Reviewing Literature (HANV8C-15-3)	Not applicable.	<u>Cert Animal Science</u> <u>CertHE Animal Science</u> <u>DipHE Zoology</u> <u>BSc Zoology with Integrated Placement year</u>
	Year 1	Systems Biology (HANXK4-15-4) Animal Genetics (HANXNV-15-4) Animal Health and Disease (HANXKK-15-4) Animal Nutrition (HANXK5-15-4) Biodiversity (HANXK6-15-4) Animal Behaviour & Welfare (HANV83-15-4) Fundamental Skills for Zoology (HANV9E-30-4)	Not applicable.	This must include the Year Work Placement module. <u>BSc Zoology</u> <u>BSc (Hons) Zoology</u> This must include all compulsory modules. <u>BSc (Hons) Zoology with Integrated Placement year</u>
	Year 2	Conservation Biology (HANV9D-30-5) Undergraduate Research Process (HANXU5-15-5)	Students are normally required to select 75 credits from the optional modules listed below: Animal Microbiology (HANXRK-15-5) Animal Reproductive Physiology (HANXRM-15-5) Animals in Education (HANV8L-15-5) Applied Animal Health and Disease (HANXSN-30-5) Behavioural and Evolutionary Ecology (HANXSR-30-5) Ethics and Welfare (HANXSW-15-5) Field Course (HANXSY-15-5) Independent Report (HANRXR-15-5) International Academic Study Extended Project (HANXRR-45-5) International Academic Study Portfolio (HANXRP-15-5) International Academic Study Project (HANXRQ-30-5) Management of Domestic Animals (HANXT8-30-5) Measuring Animal Behaviour (HANXSS-15-5)	This must include all compulsory modules and the Year Work Placement module.
	Year Out	Year Work Placement (HANVK6-15-2) OPTIONAL		
	Year 3	Undergraduate Dissertation (HANV3R-45-6) Wildlife Management & Conservation Genetics (HANV9F-30-6)	Students are normally required to select 45 credits from the optional modules listed below: Anthrozoology (HANV38-15-6) Biodiversity and Conservation (HANV39-15-6) Developments in Animal Science (HANV3G-15-6) Advanced Animal Microbiology (HANV4T-15-6) Animal Psychology (HANV4X-15-6) Epidemiology (HANV3H-15-6) Undergraduate Independent Study (HANV3M-15-6)	

Part time: The part time student journey from Entry through to Graduation is individually negotiated with the student.

Learning Outcomes:		Systems Biology	Animal Genetics	Animal Behaviour & Welfare	Biodiversity	Animal Nutrition	Fundamental Skills for Zoology	Animal Health and Disease	Undergraduate Research Process	Applied Animal Health and Disease	Management of Domestic Animals	Conservation Biology	Animal Reproductive Physiology	Measuring Animal Behaviour	Animals in Education	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	Behavioural & Evolutionary Ecology	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	Year Work Placement	Undergraduate Dissertation	Epidemiology	Wildlife Management & Conservation Genetics	Biodiversity and Conservation	Developments in Animal Science	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Undergraduate Independent Study
4	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 zoology								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	Use skills of reflection, evaluation and critical thinking to support an effective understanding of anatomical, physiological and evolutionary principles related to animal sciences.									✓		✓	✓			✓				✓				✓		✓		✓	✓		✓	✓	✓

Learning Outcomes:		Systems Biology	Animal Genetics	Animal Behaviour & Welfare	Biodiversity	Animal Nutrition	Fundamental Skills for Zoology	Animal Health and Disease	Undergraduate Research Process	Applied Animal Health and Disease	Management of Domestic Animals	Conservation Biology	Animal Reproductive Physiology	Measuring Animal Behaviour	Animals in Education	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	Behavioural & Evolutionary Ecology	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	Year Work Placement	Undergraduate Dissertation	Epidemiology	Wildlife Management & Conservation Genetics	Biodiversity and Conservation	Developments in Animal Science	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Undergraduate Independent Study	
6	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;						✓	✓	✓	✓										✓	✓	✓	✓	✓			✓	✓						

Learning Outcomes:		Systems Biology	Animal Genetics	Animal Behaviour & Welfare	Biodiversity	Animal Nutrition	Fundamental Skills for Zoology	Animal Health and Disease	Undergraduate Research Process	Applied Animal Health and Disease	Management of Domestic Animals	Conservation Biology	Animal Reproductive Physiology	Measuring Animal Behaviour	Animals in Education	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	Behavioural & Evolutionary Ecology	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	Year Work Placement	Undergraduate Dissertation	Epidemiology	Wildlife Management & Conservation Genetics	Biodiversity and Conservation	Developments in Animal Science	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Undergraduate Independent Study
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																																	
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;	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Learning Outcomes:	Systems Biology	Animal Genetics	Animal Behaviour & Welfare	Biodiversity	Animal Nutrition	Fundamental Skills for Zoology	Animal Health and Disease	Undergraduate Research Process	Applied Animal Health and Disease	Management of Domestic Animals	Conservation Biology	Animal Reproductive Physiology	Measuring Animal Behaviour	Animals in Education	Animal Microbiology	Independent Report	Field Course	Ethics and Welfare	Behavioural & Evolutionary Ecology	International Academic Study Portfolio	International Academic Study Project	International Academic Study Extended Project	Year Work Placement	Undergraduate Dissertation	Epidemiology	Wildlife Management & Conservation Genetics	Biodiversity and Conservation	Developments in Animal Science	Anthrozoology	Animal Psychology	Advanced Animal Microbiology	Undergraduate Independent Study
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;	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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 both foundation year and year one and 12 hours/week contact time over the course of the full undergraduate programme. This contact time encompasses a range of face-to-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.

The programme will have the following distinct selling features for each year of delivery:

Foundation Year: The focus will be on establishing clear underpinning knowledge and study skills to support students' progress through higher levels of the programme. Practical and academic skills will be enhanced, through a range of practical sessions and an internship in a chosen area of the campus. Students will learn in small groups to develop confidence, whilst working alone on projects to develop independent study skills and their own area of interest.

Year 1: Delivery is focused on providing a scientific foundation in zoology, to support students' academic and interpersonal skill development. To achieve this the first year concentrates on the development of fundamental knowledge of animal science, including behaviour, nutrition and biodiversity. Students will also learn how to assess animal health and welfare and develop the intellectual and academic skills necessary to succeed in university level study.

Year 2: Delivery aims to consolidate and apply the knowledge and skills developed in the first year of study, through evidence-based learning, application into practice and exposure to a range of guest speakers, from charities, HAI initiatives and animal welfare organisations. Optional modules allow students to tailor and build their specialist knowledge and begin to focus on their chosen career path, with choices to include laboratory sciences, the zoo industry and management of domestic animals. Delivery will encourage students to develop their autonomy, engage in reflection and will reinforce the competencies developed in year one. There are also opportunities for students to undertake international study within the industry, either through an exchange or the Field Course module.

Integrated Placement year (optional): Students have the opportunity to further develop their employability and can experience different methods used within human-animal interaction within either a regional, national or international environment.

Year 3: Delivery aims to provide students with opportunities to apply research and the skills they have developed into practice, facilitating individual specialisation within their chosen career path. The final year concentrates on the individual development of the student and the expansion of their specialist career path. Taught content will focus on evaluation of emerging issues across the zoology industry and students will be encouraged to engage in critical review and evidence based learning, with opportunities to put this into practice during industry or research focused projects. Students will enhance skills of reflection and application through engagement with industry and live case studies, including a residential trip to UK zoos.

On the BSc (Hons) Zoology 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 evolution as well as developing investigative skills for research. This knowledge is extended in the subsequent modules in year 2 with the optional modules enabling the student to specialise in areas of particular interest to them, for example wildlife conservation, animal health and welfare, animal reproduction and breeding, and animal management. 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 dairy 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, Paignton Zoo, West Midlands Safari Park 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 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. As well as being able to join the institutions Students Union and associated societies, it will also be possible to join Veterinary Society which is administered by the institution's students, in order to offer animal 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) Zoology.

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, animal collection, canine and equine therapy centres, 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. This focus on applying theory to practice will continue throughout the latter three stages, increasing depth of knowledge, intellectual skills and professional skills. Students will be required to complete assessment in a wide variety of ways, including those closely linked to industry practice.

Overall, the programme aims to develop students to possess an enquiring attitude, capable of sourcing information and using this knowledge and research to propose solutions to problems which arise within zoology. Students will develop a sound ethical focus, ensuring professional integrity in all aspects of their work. A range of assessments are utilized throughout the programme to progress these skills including written and practical examinations, coursework and case study evaluation to enable them to practice and refine their ability to apply theory in to practice. The achievement of competent practical skills to support employability and to support progression into postgraduate study or research is also key. Therefore, the assessment strategy embeds opportunities for students to achieve practical 'Day 1' vocational skills applicable to animal sciences across different modules and levels of the programme. Simultaneously opportunities to develop key graduate attributes such as critical writing, team working, communication and other interpersonal skills are also embedded within modules across each year of the programme to ensure the BSc (Hons) Zoology graduate can function effectively within the animal sector.

Assessment throughout the programme has been designed to assess the student's ability to apply theoretical principles and current research to practice in order to resolve and provide solutions to real world issues within the zoology field. This will be achieved via a wide variety of assessment methods, including, traditional examinations, written reports, oral presentations, practical exams and practical skills assessments and assignments. Comprehension of knowledge and intellectual skills will be rigorously assessed under controlled conditions, in examinations and oral examinations.

There will be a number of formative assessment opportunities to support students towards their summative assessment, these will be through academic and practical skills workshops through the Achievement and Success Centre at Hartpury, in the animal centre, on the college farm, individual and group tutorials with tutors and industry support during employment on placements.

In response to industry feedback there has been a conscious move through the years of the programme to develop students' autonomy, confidence, critical and problem solving skills with increasing access and involvement with employers in assessment. This will provide students with 'live briefs' for assessment that will allow them to propose solutions to industry specific challenges and scenarios that they will face in their future careers in the industry. This will develop their industry ethos and show them that they can succeed in signposting their personal, academic and professional development.

The assessment strategy has been designed to promote effective learning and engagement and to ensure that student knowledge, understanding, abilities and skills required for this programme can be comprehensively evaluated.

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) Zoology with Integrated Placement year

		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	Systems Biology				A (50)			B (50)			
	Animal Nutrition	A (50)						B (50)			
	Animal Genetics			B (25)			A (75)				
	Animal Behaviour & Welfare	A (50)						B (50)			
	Biodiversity	A (50)						B (50)			
	Fundamental Skills for Zoology									A (100)	
	Animal Health and Disease	A (70)						B (30)			
Compulsory Modules Level 5	Conservation Biology	A (50)						B (50)			
	Undergraduate Research Process							A (100)			
Optional Modules Level 5	Applied Animal Health and Disease	A (60)						B (40)			
	Management of Domestic Animals					A (30)		B (70)			
	Animals in Education					A (100)					
	Behavioural & Evolutionary Ecology	A (30)						B (70)			
	Animal Reproductive Physiology	A (50)						B (50)			
	Measuring Animal Behaviour			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	Wildlife Management & Conservation Genetics	A (48)			A (12)	B (40)			
	Undergraduate Dissertation								A (100)
Optional Modules Level 6	Advanced Animal Microbiology	A (50)			B (50)				
	Developments in Animal Science	A (100)							
	Animal Psychology	A (60)					B (40)		
	Anthrozoology		A(100)						
	Biodiversity and Conservation				A (30)	B (70)			
	Epidemiology	A (60)					B (40)		
	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 Zoology 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 Amendment Log

Programme Title:	BSc (Hons) Applied Animal Science
Programme Code:	D320A and DF20
Initial Approval Date:	V2.0 1 st September 2017
Approved by:	Hartpury Curriculum Approval Committee
Approved until:	01 September 2023
Original version number:	2.0

Changes:

Current version number: V6.1 01 September 2018	
Outline Change Details: Module name change from "Behavioural Measurement" to "Measuring Animal Behaviour"	
Material Alteration: No	
Rationale: Proposed name change makes the module clearer in terms of content covered.	
Module description for Course Information Sheets: No changes to description, same as before. Only change is module name.	
Change requested by: Sienna Taylor <input checked="" type="checkbox"/> I can confirm that all programme managers have been consulted and support this change <input checked="" type="checkbox"/> I can confirm that student representatives have been consulted about this change <input checked="" type="checkbox"/> I have retained evidence of this consultation which has been placed in the Module File <div style="text-align: center;"><i>S. Taylor.</i></div>	
Signature:	Date: 20/11/2018
Name of Head of Department: Jane Williams Yes <input checked="" type="checkbox"/> I confirm that this change does not require additional resources beyond the scope of those already present or planned for by the department; OR; <input type="checkbox"/> I confirm that this change does require additional resources and have included a completed Resource Impact and Authorisation Form	
Signature: Jane Williams	Date: 20/11/18
Approval Committee and Date:	
Change approved with effect from:	01 September 2019 (2019 intake)
Resulting new version number:	V6.3

Version 6.1

<p>Rationale: 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</p>
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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.	
Change requested by:	Academic Registrar
CVC approval date:	31 August 2018
Change approved with effect from:	01 September 2018
New version number:	6.1

Version 3.0

Rationale: We are proposing changing the name from Applied Animal Science to Zoology after consultation with prospective students who feedback that the existing name did not reflect the content and focus of the degree, and they did not feel it would support their long term career aspirations. Zoology is defined as the scientific study of the behaviour, structure, physiology, classification, and distribution of animals; the current course provides students with all of this knowledge combined with a specific wildlife and zoo conservation focus, and as such zoology defines this programme much better than applied animal science.	
Material Alteration: Yes and Course Information Sheet amended appropriately: Yes	
Outline Change Details: Change name of highest awards to BSc (Hons) Zoology with Integrated Placement year and BSc (Hons) Zoology No other amendments but this affects almost all sections.	
Change requested by:	Jane Williams
CVC approval date:	17 January 2018
Change approved with effect from:	01 September 2018
New version number:	v2.0

Version 3.1

Outline Change Details: <u>It is proposed to remove the following modules:</u> LEVEL 4: Anatomy & Physiology (Compulsory) Introduction to Animal Behaviour (Compulsory) Introduction to Animal Welfare (Compulsory) LEVEL 5: Applied Animal Nutrition (Compulsory) Animal Production (Optional) Animal Therapy 1(Optional) LEVEL 6: Animal Therapy 2 (Optional) Wildlife & Zoo Management (Optional) Advanced Animal Nutrition (Optional) Advanced Animal Production (Optional) <u>The following existing modules will be added:</u> LEVEL 4: Systems Biology (Compulsory) Animal Behaviour & Welfare (Compulsory) LEVEL 5: Behavioural & Evolutionary Ecology (Optional) Animals in Education (Optional) <u>The following new modules are proposed:</u>

Fundamental Skills for Zoology HANV9E-30-4 (Compulsory) Conservation Biology HANV9D-30-5 (Compulsory) Wildlife Management & Conservation Genetics HANV9F-30-6 (Compulsory)	
Developments in Animal Science (HANV3G-15-6) has moved from Compulsory to Optional.	
Addition of interim award BSc Zoology with Integrated Placement year to Part 1: Basic Data and Part 3: Programme Structure.	
Rationale: To maximize student recruitment, achievement and experience, and subsequent employability in Zoology, the programme team feel that some minor amendments to the programme structure which are outlined in this proposal.	
Change requested by:	Lucy Bearman-Brown
CVC approval date:	01 March 2018
Change approved with effect from:	01 September 2018

Version 3.2

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 6.1

Rationale: 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) and 9Top up) with (Level 6 entry). 3. Removed BUWE B80. 4. Subject Benchmark Statements updated where required	
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.	
Change requested by:	Academic Registrar
CVC approval date:	31 August 2018
Change approved with effect from:	01 September 2018
New version number:	6.1