

HARPER ADAMS UNIVERSITY

Programme Specification

1	Awarding Institution:	Harper Adams University
2	Teaching Institution:	Askham Bryan College
3	Course Accredited by:	Not Applicable
4	Final Award and Level:	FdSc (Level 5)
5	Interim Award(s) and Level(s):	University Foundation Certificate Collection Studies (Level 4) Certificate of Higher Education Collection Studies (Level 4)
6	Award Title:	Management of Animal Collections with Conservation
7	UCAS Code:	D328
8	JACS Code(s):	D300
9	QAA Benchmark Statement(s):	Foundation Degree (2008) Agriculture, Horticulture, Forestry, Food and Consumer Sciences (2009) Biosciences (2007) General business and management (2007)
10	Language of Study:	English
11	Mode of Study:	Full-time / Part-time
12	Date Approved or Revised:	Validation Event Held on 16 th March 2015 (September 2015 – August 2021) Revised PAC – 26 th July 2016 Updated Academic Standards Committee – July 2017 <u>(For 2017-18 Entry Cohort Onwards)</u>

CONTEXT AND RATIONALE

It is expected that by 2020 the animal management industry will need a minimum of 90,000 new entrants (Lantra, 2012). Askham Bryan College aims to assist in facilitating this using its large animal unit consisting of a wide range of animals covering all taxa. This is set to expand in the spring of 2015 with the opening of a state of the art animal management building alongside a 24 acre wildlife and conservation park. The park will be open to the public during weekends and half terms to allow the students to work among the visitors giving student experience in public speaking and customer care in addition to the practical animal husbandry skills. This significant investment in the animal management section will facilitate the learning and serve the curriculum well.

The FdSc Management of Animal Collections with Conservation programme has been designed to equip students with the knowledge and skills to enter this industry, by using the in house resources and new facilities. . The newly established Wildlife Conservation Park with its designation of a zoo will provide students with further real life experience and skills needed for employment.

In 2011 the Animal Management department split the level 3 provision into distinct industry specific pathways. Since this a higher proportion of students have progressed into Higher

Education with many choosing specialised degree programmes both BSc and FdSc. The success of the specialised level 3 programmes in developing learners to progress and develop specialist skills is one of the leading factors in the decision to tailor the FdSc degree routes to match industry and student requirements.

The Lantra Skills Assessment Report for the industry (2009) indicates that: “the sector has undergone great change in recent years, which has led to an increasing demand for high skilled workers”. This new FdSc along with the new facilities will educate the learners to the high standards required by employers and meet the changes faced by the industry. Areas relating to health and welfare, legislation, economic factors affecting the sustainability of the industry and environmental change were particularly highlighted in the report and all of these elements are embedded into the new FdSc.

The college has developed its industry related resources and has a team of well-qualified staff to deliver and develop this FdSc. The programme has a clear focus on the wider animal management industry and will help students to make objective decisions when assessing health, welfare, husbandry and customer care as well as evaluate the economic impacts of their decisions. Students studying the course may enter a wide variety of roles in the industry, working in animal welfare, zoo management, wildlife management, education, conservation and health related sectors. Many students may progress to honours level and higher study either at the college or elsewhere.

GENERIC AIMS

All FdSc awards aim to provide the following:

1. To develop in each student subject knowledge and understanding appropriate to individual interests and developing vocational needs.
2. To develop each student’s intellectual powers, their understanding and judgement, their ability to see relationships within what they have learned and to examine the field of study within a broader perspective.
3. To develop the personal effectiveness and employability of students, in particular their ability to learn, to communicate, to work with others and to solve problems.
4. To develop those skills of professional scholarship required for career management, lifelong learning and innovation.
5. To inculcate an awareness of the wider consequences of economic activity and a determination to minimise the effects on the environment and on people.
6. To provide a lively, stimulating and challenging educational experience.

AWARD-SPECIFIC AIMS

The FdSc Management of Animal Collections with Conservation award aims to provide the following:

1. To develop students practical skills and their ability to apply those skills in the fields of conservation and collections management.
2. To develop each student’s ability to apply detailed scientific knowledge to collections management and conservation.
3. To equip students with a thorough understanding of business concepts relating to conservation projects and collections.
4. To equip students with the ability to identify, analyse and solve a range of commonly encountered problems within collections.

5. To develop students ability to recognise and evaluate external factors and their influence on conservation efforts.

GENERIC OUTCOMES

On successful completion of FdSc awards, students will be able to:

A	Knowledge	Demonstrate a detailed knowledge of key theories, ideas and terminology associated with the discipline, with some appreciation of how knowledge is developed and used in practice.
B	Problem Solve	Select and use strategies to solve problems that are complex or unpredictable.
C	Analysis	Analyse data using recognisable principles or approaches, and draw out specific findings from this process with some awareness of the limitations of the approach.
D	Synthesis	Compare and contrast ideas and/or data to strengthen evidence or arguments towards a specified purpose.
E	Evaluation	Review information using selected methods to address complex issues or problems, with an awareness of some of the limitations of the source material.
F	Digital Competence	Select and use appropriate technologies to enable or enhance the performance of specific tasks, and appreciate the role information and communication technologies play in the discipline or relevant professions.
G	Team Work	Work productively with others on negotiated tasks and evaluate team performance with reference to some of the internal and external factors affecting success.
H	Career Dev	Recognise, pursue and record personal development in a way that supports the needs of relevant professional employers.
I	Communications	Communicate effectively through different media and genre, for specialist and non-specialist audiences.
J	Practical Comp	Perform practical operations in more complex or unpredictable situations that require the selection and application of appropriate skills and review personal effectiveness in practical tasks.
K	Autonomy	Work independently and autonomously with only some supervision in academic and practical tasks; make decisions about when support is needed.
L	Research	Use research to inform the development of knowledge and understanding, and to inform decision-making.
M	Sustain Practice	Recognise the complexity of sustainable practice, and assess the sustainability of different practices, processes and/or developments.
N	Global	Compare and contrast international examples or case studies that are associated with the discipline and identify global factors or trends that have an impact on specific areas of study.
O	Ethics	Recognise some ethical challenges associated with research and within professional behaviour, and appreciate the role of personal responsibility and professional codes in complex ethical dilemmas
P	Placement	Not applicable.
Q	Honours	Not applicable.

AWARD-SPECIFIC OUTCOMES

On successful completion of the FdSc Management of Animal Collections with Conservation award, students will be able to:

Level 4

R	Explain the importance of key scientific principles in relation to captive and wild animal management.
S	Recognise the influence of environmental, social, political and economic factors on captive and wild animal populations.
T	Demonstrate ability to interact with stakeholders, assess their needs and communicate using a variety of methods and technologies.
U	Apply practical skills relevant to collection and conservation industries.

Level 5

R	Evaluate methods used in the management of captive and wild animals, taking into account recent technological advances.
S	Apply business management principles to animal management enterprises and conservation projects in line with current sustainability agendas.
T	Identify, analyse and solve a range of commonly encountered problems when managing animal species and where appropriate, indicate solutions that apply to industrial practice.
U	Analyse species-specific needs and appraise a range of relevant management techniques in line with business and sustainability models.

RELATIONSHIP WITH EXTERNAL REFERENCE POINT(S)

The aims and outcomes of this FdSc programme reflect the level descriptors for FdSc Awards (2008), part of the QAA UK Higher Education Quality Code.

The award is reflected in the benchmark statements for agriculture, horticulture, forestry, food and consumer sciences (2009) and biosciences (2007). The statement for general business and management (2007) is also reflected, specifically in relation to finance, management and development of people, business policy and strategy, communication and information technology and customer service. In addition, the themes of sustainability and globalisation are embedded.

LANTRA (2014) state that there are currently nearly 223,000 people working in animal management, spread throughout the UK. It is expected that by 2020 the industry will need a minimum of 90,000 new entrants. These entrants will be working in a broad range of industries including those with a companion animal basis, breeders, zoos, wildlife parks, conservation and open farms.

LANTRA lead the way in understanding what animal management businesses and what individuals need. LANTRA (2014) highlighted areas in which all individuals need to have a good understanding and skill set to work in this industry including animal welfare, customer care training, management skills, marketing and fundraising skills, business skills, professional training delivery and assessment. Increased focus on animal welfare following the introduction of the Animal Welfare Act (2006) and EU legislation highlights the need for employees that have excellent technical skills alongside specialist knowledge in specific areas. In addition people with good influencing skills are needed for public facing and enforcement roles. LANTRA (2011) reported that there was a need for a better skills set for animal health and welfare including higher standards for handling animals and legislation

regarding the transport of animals. The FdSc programme will provide students with the skills and knowledge outlined from the LANTRA report summary. It will provide industry specific knowledge and also the wider transferable skills and independent motivation which set Higher Education students apart.

BIAZA (2014), British and Irish Association of Zoos and Aquariums, state that in Britain, there are about 350 zoos, safari parks, bird gardens and aquaria open to the public, which employ approximately 3,000 people in full-time positions with many more part time and voluntary. Jobs in zoos involving animals include zoo keeping, veterinary work, zoology, conservation and educational work. Some zoos also employ field biologists who work on field projects both in-situ and ex-situ sponsored by the zoo.

Conservation element of the FdSc involves several organisations and a variety of skill sets such as an understanding of practical conservation to PR, marketing or education. Many national conservation organisations offer good employment opportunities: The British Trust for Ornithology (BTO), the Royal Society for the Protection of Birds (RSPB), the National Trust, the Wildlife Trusts and the Mammal Society amongst others.

The College holds an Animal Management Technical Advisory Group and feedback from employers helped to shape the curriculum. In addition feedback from a range of student focus groups has been considered in designing the overall programme.

PROFESSIONAL ACCREDITATION ARRANGEMENTS

There are no professional accreditation arrangements for the FdSc Management of Animal Collections with Conservation programme.

COURSE DURATION, PROGRESSION, MODULE COMPENSATION, TRANSFER, ADVANCED STANDING AND INTERIM AWARDS

Course Duration

The duration of this course will be two years full-time, or three years part-time.

Full-time students will normally study at least 120 credits (equivalent to 1200 study hours) per year from a combination of core (compulsory) and optional modules. Students intending to top-up to a BSc/BSc Honours programme should discuss their option choice with their Course Manager.

The part-time programme will be completed in three years and typically be no less than 50% of the standard module diet of the full-time version of the award.

The maximum duration of study for full-time and part-time students (including up to one year postponement of studies) will be three years and four years respectively.

Progression

Students progressing to the second year must have satisfied the requirements for progression in line with Harper Adams University academic regulations.

Module Compensation Exclusions

The following modules are not eligible for compensation within the FdSc Management of Animal Collections with Conservation programme:

Part 1 modules: all modules other than Industry Skills are eligible for compensation.

Part 2 modules: all modules other than Professional Development, Academic Development and Personal Research Project are eligible for compensation

Transfer

Students transferring to the second year must have satisfied the requirements for transfer in line with Harper Adams University academic regulations. Unless otherwise indicated in the programme specification, students can transfer all core module credits between programmes.

Entry with Advanced Standing

Table 4.1 in **Section 4** of the *Academic Quality Assurance Manual* identifies the maximum credit that can normally be advanced for students wishing to enter with advanced standing from a Harper Adams' award, or an award from another institution. Harper Adams' awards which qualify for the maximum volume of advanced standing into this programme are listed as follows:

- Entry with Accreditation of Prior Learning (APL)/ Accreditation of Prior Experiential Learning (APEL) will be accepted in accordance with the Askham Bryan College procedure and Harper Adams University regulations. No more than $\frac{2}{3}$ credit for the award may be derived from APL. Within this limit, no more than half of the total credit value of the award may be derived from APEL.

Interim awards which qualify for a lower level of advanced standing, including Harper Adams' awards, into this programme are listed below:

- Holders of a matching Certificate of Higher Education/HNC/FdSc may apply to be admitted to part two of this programme, subject to satisfaction of the admitting Course Manager of their suitability for study on the programme. Students would normally have to achieve the minimum credit requirements for the award specified.

The course structure diagram(s) identify the specific study programme(s) for candidates entering with advanced standing. **Section 4.5.10** of the *Academic Quality Assurance Manual* specifies the arrangements for transfer and advanced entry and these will apply unless an alternative arrangement has been approved.

Holders of a matching HNC/FdSc may apply to be admitted to part two of this programme, subject to satisfaction of the admitting Course manager of their suitability for study on the programme. Students would normally have to achieve the minimum credit requirements for the award specified.

Interim Awards

The requirements for interim awards associated with final awards are as follows:

Certificate of Higher Education Collection Studies

To qualify for the interim award of **Certificate of Higher Education Collection Studies**, students are required to achieve the following outcomes:

Level 4 – Generic Outcomes

A	Knowledge	Identify and describe key theories, ideas and terminology associated with the discipline.
B	Problem Solve	Solve straightforward, routine or predictable problems using strategies that are specified.
C	Analysis	Analyse data or ideas using specified procedures to generate usable findings.
D	Synthesis	Categorise information and draw on multiple sources to fulfil a specified purpose.
E	Evaluation	Review information in a balanced manner, using specified methods to fulfil a given purpose.
F	Digital Competence	Use technologies to enable or enhance the performance of specific tasks and demonstrate a commitment to developing appropriate digital competencies.
G	Team Work	Work with others to meet specified objectives and fulfil personal goals.
H	Career Develop	Recognise how learning within their programme links to future careers and identify the knowledge, skills and attributes associated with different relevant professions.
I	Communications	Communicate clearly to convey an understandable message in relation to specific tasks and audiences.
J	Practical Comp	Perform practical operations in predictable, routine situations that require the application of specified procedures.
K	Autonomy	Take responsibility for studies and self-development with guidance and support. Use the resources available to help learning.
L	Research	Recognise that research can generate theory and ideas that are used in practice.
M	Sustain Practice	Recognise the meaning and importance of sustainable practice, and identify some of the ways that sustainable practice manifests.
N	Global	Identify a range of international examples or case studies that are associated with the discipline.
O	Ethics	Recognise some ethical challenges and appreciate the need or personal responsibility.
P	Placement	Not applicable
Q	Honours	Not applicable

Level 4 – Award-Specific Outcomes

R	Explain the importance of key scientific principles in relation to captive and wild animal management.
S	Recognise the influence of environmental, social, political and economic factors on captive and wild animal populations.
T	Demonstrate ability to interact with stakeholders, assess their needs and communicate using a variety of methods and technologies.
U	Apply practical skills relevant to collection and conservation industries.

University Foundation Certificate Collection Studies

To qualify for the interim award of **University Foundation Certificate Collection Studies** students are required to achieve the following outcomes:

Level 4 Generic Outcomes

A	Knowledge	Identify and describe key theories, ideas and terminology associated with the discipline.
B	Problem Solve	Solve straightforward, routine or predictable problems using strategies that are specified.
C	Analysis	Analyse data or ideas using specified procedures to generate usable findings.
D	Synthesis	Categorise information and draw on multiple sources to fulfil a specified purpose.
E	Evaluation	Review information in a balanced manner, using specified methods to fulfil a given purpose.
F	Digital Competence	Use technologies to enable or enhance the performance of specific tasks and demonstrate a commitment to developing appropriate digital competencies.
J	Practical Comp	Perform practical operations in predictable, routine situations that require the application of specified procedures.

Level 4 Award-Specific Outcomes

T	Demonstrate ability to interact with stakeholders, assess their needs and communicate using a variety of methods and technologies.
U	Apply practical skills relevant to collection and conservation industries.

Students will have obtained a minimum of 120 credits for award of Certificate of Higher Education (120 credits of core modules) or 60 credits for the award of University Foundation Certificate (Academic Skills plus any other 45 level 4 credits) in accordance with the assessment regulations.

COURSE STRUCTURE, LEVELS AND CREDIT REQUIREMENTS FOR INTERIM AND FINAL AWARDS

Harper Adams' programmes are based on a credit-accumulation system where 1 credit represents 10 notional hours of student study time. Modules are normally 15 credits or multiples thereof. Modules are also at different levels from Levels 3 – 7, according to their intellectual challenge. Courses leading to specific awards include **core modules**, **optional modules** from which students must select choices up to the number of credits required, and, in some cases, **elective credit** whereby students may study any modules of their choice from within the Harper Adams portfolio, subject to timetabling and pre-requisite constraints, in place of optional modules, with the approval of their programme manager.

The minimum credit requirements needed to progress to interim and final awards are listed in **Section 4.4.5** of the *Academic Quality Assurance Manual*. These are reflected in the corresponding course structure study programmes, which follow.

Course Structure – FdSc Management of Animal Collections with Conservation

2017 Entry Cohort
UCAS CODE: D328

Part 1		Part 2	
Part 1 - Level 4		Part 2 - Level 5	
Semester 1 Core	Semester 2 Core	Semester 3 Core	Semester 4 Core
Academic Skills (ABC4100) 15 Credits		Personal Research Project (Module Code TBC) 15 Credits	
Industry Skills (ABC4101) 15 Credits		Academic Development (Module Code TBC) 15 Credits	
Anatomy and Physiology (ABA4102) 15 Credits		Professional Development (Module Code TBC) 15 Credits	
Introduction to Business (ABC4102) 15 Credits	Field Research Skills (ABA4109) 15 Credits	Breeding and Inheritance (Module Code TBC) 15 Credits	Collections Husbandry (Module Code TBC) 15 Credits
Semester 1 Electives	Semester 2 Electives	Semester 3 Electives	Semester 4 Electives
Captive Behaviour Management (*) (ABA4106) 15 Credits	Animal Health (ABA4101) 15 Credits	Animal Nutrition (Module Code TBC) 15 Credits	Business Enterprise (**) [B] 15 Credits
Environmental Interpretation (*) (ABA4108) 15 Credits	Ecology and Conservation (*) (ABA4107) 15 Credits	Collections Animal Training (***) (Module Code TBC) 15 Credits	Collections Management (**)(***) [B] (Module Code TBC) 15 Credits
Practical Animal Husbandry (ABA4115) 15 Credits	Aquatics Husbandry and Management (ABA4103) 15 Credits		Incubation and Rearing (***) (Module Code TBC) 15 Credits
	Fundamentals of Evolutionary Ecology and Classification (*) (ABA4110) 15 Credits		Biodiversity and Restoration Ecology (***) (Module Code TBC) 15 Credits
	Human and Companion Animal Interactions (ABA4111) 15 Credits		Welfare Legislation and Ethics (Module Code TBC) 15 Credits

Full-time students will normally study at least 120 credits (equivalent to 1200 study hours) per year from a combination of core (compulsory) and elective modules. Students intending to top-up to a BSc/BSc Honours programme should discuss their elective choices with their Course Manager. Other electives may be available by negotiation with the Course Manager within the constraints of the timetable and credit framework, including a language.

Key:

The code on the left denotes the module identifier; the number on the right denotes the credit value.

For students to qualify for FdSc Management of Animal Collections with Conservation they must have at least 30 credits from the highlighted bank modules at level 4 and at least 45 credits from the level 5 bank modules. They are also able to choose any other modules to equal 60 credits each year.

- (*) – 15 credits must be studied from this selection with the remaining 30 credits from any level 4 elective
- (**) – One of these modules must be selected (banned combination)
- (***) – 30 credits must be studied from this selection with the remaining 15 credits from any level 5 elective
- [B] – Banned combination

Validation Date: 16th March 2015

Date of Approval following Response to Validation Report: June 2015

Period of Approval: September 2015 – August 2021

Updated Academic Standards Committee – July 2017 (For 2017-18 Entry Cohort Onwards)

COURSE DESIGN, LEARNING, TEACHING AND ASSESSMENT METHODS

Curriculum design

The early stages of the course involve study of current principles which not only provide the tools for critical analysis of existing practices but also ensure that students have an appropriate background for the work experience period. The work experience period is considered to be a key element of the Askham Bryan College curriculum as the principles learned in the early stages of the course and the experience acquired in the placement period are applied to the solution of real and complex problems in the final stages. Students will normally undertake a work placement alongside full time study, i.e. one day per week at each level, although arrangements can be made for alternative models.

The curriculum has been designed to be relevant and stimulating to meet the needs of both students and employers in the industry. Technical Advisory Groups, student focus groups and course team reports have been consulted during review and revision of the existing curriculum. Efficiency of delivery is a key HEFCE funding priority for the future and increased shared delivery of cross-programme modules is planned on this programme.

Learning and teaching methods

Teaching and learning methods used to deliver this curriculum are designed to provide experience, and, through reflection upon it, develop concepts which can then be explored through testing and experimentation. Methods vary according to the nature of each module's subject matter but include a wide diversity from more formal lectures to student centred activities including assignments, seminars, field trips, guest lectures and case studies. Practical skills will be developed during sessions in the animal unit, on field trips and in laboratories.

All students carry out a major individual research project in the final year. The curriculum is delivered in such a way that there is a reducing reliance on tutor-directed study as students progress through their programme. Students will be supported with their study via the college's VLE, Moodle, which will prepare them for the autonomy expected of HE students and for Continuing Professional Development studies, post-graduation.

Transferable skills

All FdSc courses, other than Veterinary Nursing, at Askham Bryan College include the Academic Skills and Academic Development modules plus Industry Skills and Professional Development. These are designed to develop the skills required to succeed on College courses, to obtain employment, to manage careers and to develop the scholarship required in a learning society. The programme includes activities to develop core skills of communication, numeracy, IT and personal development planning. Vocational placement periods (normally 150 hours in both years) help to develop the skills and attributes required in the world of work. Higher level modules are designed to develop teamwork, independent learning, problem solving and research.

Assessment

Assessment is considered an important part of the learning process. Typically, modules are assessed by two pieces of assessment, although this may vary. The first will provide formative in-course feedback and the second provides a summative end-of module assessment; each contributing 50% to the weighted mean module work unless otherwise stated. Unless otherwise specified in module descriptors the overall mark is derived from a weighted mean, with no threshold requirement in any assessment component. Formative assessment methods are diverse and include literature review-based essays, problem based assignments, oral presentations, business written reports, individual and team scenario

exercises, experimental work and placement assignments. Time constrained assessment includes closed and open book assessment, with both seen and unseen questions and tasks set.

A range of subject specific assessment methodologies will be included to develop practical and technical skills. These will include professional discussion, peer observation, case studies and practical assessments.

To introduce Level 4 students to HE assessment processes, semester 1 modules such as Practical Animal Husbandry and Introduction to Business have early assessment submissions with Pre-Christmas feedback. Modules with exams that are running in the first semester have a late exam at the end of Semester 1.

ENTRANCE REQUIREMENTS

For admission to all courses, students must have achieved passes (Grade C or above) in a minimum of five GCSE subjects including English, Mathematics and Science or have passed a Level 2 Diploma

In addition, for admission onto FdSc programmes, students must have achieved a pass grade in a minimum of one 'A2' level subject (or equivalent) or have successfully completed an Extended/ National Diploma in a relevant subject area. Using the UCAS tariff system, a typical offer for admission to the FdSc would be in the range of 48 points. All UK based students will be invited to attend an interview at Askham Bryan College and places will be subject to a satisfactory reference and may also require satisfactory completion of an assessment.

Equivalent qualifications may be considered.

Applications will be welcomed via one of the formalised pathways outlined in signed progression accords with other institutions.

Applications from mature students are welcomed. Applicants will be assessed on individual experience.

For progression to the BSc (Hons) top-up programme, students would normally be expected to have successfully completed their FdSc programme with a minimum of mean grade of 55% in their final year. Admission to the BSc top up programme would involve successful completion of the FdSc programme plus a suitable tutor reference to support admission.

Curriculum Map for FdSc Management of Animal Collections with Conservation

Award Outcomes		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u
LEVEL 4 MODULES																						
Core	Academic Skills					✓	✓		✓	✓		✓	✓									
	Industry Skills		✓	✓				✓	✓		✓	✓		✓	✓						✓	✓
	Introduction to Business		✓		✓		✓	✓				✓			✓	✓						
	Anatomy and Physiology	✓									✓									✓		✓
	Field Research Skills	✓	✓	✓						✓	✓		✓		✓	✓				✓		✓
Electives	Fundamentals of Evolutionary Ecology and Classification	✓	✓	✓									✓							✓		
	Environmental Interpretation	✓	✓	✓	✓	✓	✓			✓				✓	✓					✓	✓	
	Ecology and Conservation	✓		✓		✓					✓		✓	✓	✓	✓				✓	✓	✓
	Captive Behaviour Management	✓		✓	✓						✓	✓			✓	✓				✓	✓	✓
	Practical Animal Husbandry	✓				✓		✓	✓	✓	✓		✓	✓		✓				✓		✓
	Human and Companion Animal Interactions	✓		✓	✓					✓		✓	✓		✓						✓	
	Animal Health	✓	✓		✓	✓										✓	✓				✓	✓
Aquatics Husbandry and Management	✓	✓	✓	✓	✓					✓					✓	✓				✓	✓	
LEVEL 5 MODULES																						
Core	Personal Research Project			✓	✓	✓						✓	✓									
	Academic Development		✓	✓			✓			✓	✓											
	Professional Development							✓	✓	✓	✓			✓						✓	✓	
	Breeding and Inheritance	✓	✓	✓	✓	✓										✓	✓					
Mandatory Option of	Collections Husbandry	✓								✓	✓										✓	✓
	Collections Management						✓	✓		✓				✓	✓	✓				✓	✓	✓
Electives	Business Enterprise							✓		✓			✓	✓	✓					✓		
	Collections Animal Training	✓	✓								✓	✓									✓	
	Incubation and Rearing	✓				✓							✓							✓	✓	✓
	Biodiversity and Restoration Ecology	✓				✓							✓	✓	✓	✓				✓	✓	✓
	Welfare, Legislation and Ethics	✓			✓	✓							✓		✓	✓				✓		✓
	Animal Nutrition	✓			✓								✓									✓

Level 4

A	Knowledge	Identify and describe key theories, ideas and terminology associated with the discipline.
B	Problem Solve	Solve straightforward, routine or predictable problems using strategies that are specified.
C	Analysis	Analyse data or ideas using specified procedures to generate usable findings.
D	Synthesis	Categorise information and draw on multiple sources to fulfil a specified purpose.
E	Evaluation	Review information in a balanced manner, using specified methods to fulfil a given purpose.
F	Digital Competence	Use technologies to enable or enhance the performance of specific tasks and demonstrate a commitment to developing appropriate digital competencies.
G	Team Work	Work with others to meet specified objectives and fulfil personal goals.
H	Career Develop	Recognise how learning within their programme links to future careers and identify the knowledge, skills and attributes associated with different relevant professions.
I	Communications	Communicate clearly to convey an understandable message in relation to specific tasks and audiences.
J	Practical Comp	Perform practical operations in predictable, routine situations that require the application of specified procedures.
K	Autonomy	Take responsibility for studies and self-development with guidance and support. Use the resources available to help learning.
L	Research	Recognise that research can generate theory and ideas that are used in practice.
M	Sustain Practice	Recognise the meaning and importance of sustainable practice, and identify some of the ways that sustainable practice manifests.
N	Global	Identify a range of international examples or case studies that are associated with the discipline.
O	Ethics	Recognise some ethical challenges and appreciate the need or personal responsibility.
P	Placement	Not applicable
Q	Honours	Not applicable
R		Explain the importance of key scientific principles in relation to captive and wild animal management.
S		Recognise the influence of environmental, social, political and economic factors on captive and wild animal populations.
T		Demonstrate ability to interact with stakeholders, assess their needs and communicate using a variety of methods and technologies.
U		Apply practical skills relevant to collection and conservation industries.

A-Q = generic outcomes

R-U = award-specific outcomes

Level 5

A	Knowledge	Demonstrate a detailed knowledge of key theories, ideas and terminology associated with the discipline, with some appreciation of how knowledge is developed and used in practice.
B	Problem Solve	Select and use strategies to solve problems that are complex or unpredictable
C	Analysis	Analyse data using recognisable principles or approaches, and draw out specific findings from this process with some awareness of the limitations of the approach.
D	Synthesis	Compare and contrast ideas and/or data to strengthen evidence or arguments towards a specified purpose.
E	Evaluation	Review information using selected methods to address complex issues or problems, with an awareness of some of the limitations of the source material
F	Digital Competence	Select and use appropriate technologies to enable or enhance the performance of specific tasks, and appreciate the role information and communication technologies play in the discipline or relevant professions.
G	Team Work	Work productively with others on negotiated tasks and evaluate team performance with reference to some of the internal and external factors affecting success
H	Career Dev	Recognise, pursue and record personal development in a way that supports the needs of relevant professional employers.
I	Communications	Communicate effectively through different media and genre, for specialist and non-specialist audiences.
J	Practical Comp	Perform practical operations in more complex or unpredictable situations that require the selection and application of appropriate skills and review personal effectiveness in practical tasks.
K	Autonomy	Work independently and autonomously with only some supervision in academic and practical tasks; make decisions about when support is needed.
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M	Sustain Practice	Recognise the complexity of sustainable practice, and assess the sustainability of different practices, processes and/or developments.
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O	Ethics	Recognise some ethical challenges associated with research and within professional behaviour, and appreciate the role of personal responsibility and professional codes in complex ethical dilemmas
P	Placement	Not applicable
Q	Honours	Not applicable
R		Evaluate methods used in the management of captive and wild animals, taking into account recent technological advances.
S		Apply business management principles to animal management enterprises and conservation projects in line with current sustainability agendas.
T		Identify, analyse and solve a range of commonly encountered problems when managing animal species and where appropriate, indicate solutions that apply to industrial practice
U		Analyse species-specific needs and appraise a range of relevant management techniques in line with business and sustainability models.

A-Q = generic outcomes

R-U = award-specific outcomes

