



Plymouth University

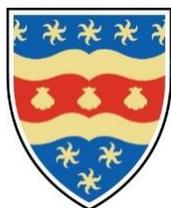
Academic Partnerships

CORNWALL COLLEGE (NEWQUAY)

Programme Quality Handbook

**BSc (Hons) APPLIED ZOOLOGY AND
CONSERVATION (With Placement)**

Academic Year 2019-2020



**UNIVERSITY OF
PLYMOUTH**

If you require any part of this Handbook in larger print, or an alternative format, please contact:

HE Operations

Tel: (01209 616256)

E-mail: (cornwallhea@cornwall.ac.uk)

Please note:

All the information in this Handbook is correct at the time of printing.

The Cornwall College Group is proud of its teaching and research and it undertakes all reasonable steps to provide educational services in the manner set out in this Handbook and in any documents referred to within it. It does not, however, guarantee the provision of such services. Should industrial action or circumstances beyond the control of the College interfere with its ability to provide educational services, the University undertakes to use all reasonable steps to minimise the resultant disruption to those services.

PROGRAMME SPECIFICATION



Programme Title: BSC (Hons) Applied Zoology and Conservation

Internal Programme Code: 4900

Partner Delivering Institution: Cornwall College, Newquay

State Date: September 2019-20

First Award Date: July 2023-24

Date(s) of Revision(s) to this Document: Updated Oct 2018

This programme specification template aligns with recommendations within the UK Quality Code for Higher Education¹. The information provided, by the programme proposer, in each section is definitively agreed between the delivering institution and Plymouth University at approval. Therefore any requests for changes to content (post the conditions set at approval) must follow Plymouth University's procedures for making changes to partnership programmes².

Contents

PS1. Programme Details	4
PS2. Brief Description of the Programme	4
PS3. Details of Accreditation by a Professional/Statutory Body (If Appropriate)	5
PS4. Exceptions to Plymouth University Regulations	5
PS5. Programme Aims	5
PS6. Programme Intended Learning Outcomes (ILO)	6
PS7. Distinctive Features	6
PS8. Student Numbers	8
PS9. Progression Route(s)	8
PS10. Admissions Criteria	9
PS11. Academic Standards and Quality Enhancement	10
PS12. Programme Structure	12
PS13. Explanation and Mapping of Learning Outcomes, Teaching & Learning and Assessment	13
PS14. Work Based/ Related Learning	41
Appendix	Error! Bookmark not defined.

¹QAA, 2011, Chapter A3: The Programme Level, UK Quality Code for Higher Education:
<http://www.qaa.ac.uk/en/Publications/Documents/quality-code-A3.pdf>, last accessed 28th July 2014 [n.b. this includes 'Appendix 2: Working with programme specifications: A leaflet for further education colleges']

² If required please contact Academic Partnerships Programme Administration for assistance.

PS1. Programme Details

Awarding Institution:	Plymouth University
Partner Institution and delivery site (s):	Cornwall College (Newquay)
Accrediting Body:	N/A
Language of Study:	English
Mode of Study:	Full time
Final Award:	BSc(Hons)
Intermediate Award:	Certificate of Higher Education (CertHE) Diploma of Higher Education (DipHE) Ordinary Degree (BSc)
Programme Title:	Applied Zoology and Conservation
UCAS Code:	0V47
HECOS Code:	100880, 100469
Benchmarks:	The standards referred to for the development of this award are the QAA subject benchmarking document for Biosciences (2007). The management and delivery of the programme is in accordance with the precepts of the QAA Code of Practice.
Date of Programme Approval:	06 May 2014

PS2. Brief Description of the Programme

This text is definitively approved at programme approval and therefore may be directly used for promotion of the programme without the need for further confirmation (Approx. 200-250 words)

The BSc (Hons) Applied Zoology and Conservation is a full-time three year course designed to equip students with the necessary skills and knowledge to work within the field of conservation. Modules cover a range of subjects from anatomy and physiology to behaviour, population and habitat management.

There is an emphasis on practical application using both national and international examples, and on utilising field specialists within the institute and externally as guest speakers to discuss current issues and research in zoological conservation.

The course is delivered at Cornwall College Newquay which is ideally located for field based observation, with terrestrial and marine sites including Areas of Outstanding Natural Beauty (AONB) such as Trevoze Head and Bedruthan Steps, Special Areas of Conservation (SAC) including Breney Common and Goss and Tregoss Moor (JNCC 2014), and newly designated Marine Conservation Zones (MCZ) including Padstow Bay and surrounds (DEFRA 2013). The location and the colleges close links with advisory bodies such as Natural England, Inshore Fisheries and Conservation Authorities (IFCA), and Cornwall Wildlife Trust allow students to study and participate in conservation and management of the local area as it happens.

Students will have the option of taking a placement year between Stage 2 and 3, this will require a total of 26 weeks on placement with either a single or multiple relevant employers/organisations. Students will need to opt for the placement year by the end of Stage 1. During the placement year students will need to conduct an independent research project and will be supported in the lead up to the placement and throughout by a placement year supervisor. The research conducted as part of the placement year project cannot be used for the Honours Project in Stage 3.

Students are also required to complete a minimum of 100 hours work experience throughout the course of the three year programme. This can be completed through contribution to national taxon specific surveys such as bird and sea mammal observation for Seaquest South West, or the National Swift Inventory through the RSPB. Students can also organise their own work placement either within the UK or abroad, with previous placements including Secret World Wildlife Rescue, Natural England within the UK and The Great Gorilla Project in Uganda, and the Caprivi Carnivore Project in Namibia. This allows students to develop their practical skills and apply theory to practice. The students will evaluate their work experience as part of the Zoological Conservation in Practice module (Level 5).

PS3. Details of Accreditation by a Professional/Statutory Body (If Appropriate)

None noted at this time.

PS4. Exceptions to Plymouth University Regulations

(Note: Plymouth University's Academic Regulations are available internally on the intranet: <https://staff.plymouth.ac.uk//extexam/academicregs/intranet.htm>)

None.

PS5. Programme Aims

This programme will deliver:

- A1. Provide a conceptual understanding of Applied Zoology & Conservation that enables the student to devise and sustain arguments, and/or to solve problems, using ideas and techniques, some of which are at the forefront of zoology and conservation.
- A2. Offer the opportunity of developing the qualities and transferable skills necessary for employment in zoology and conservation, including skills required for effective team work, project management and communication delivered through applied teaching and work experience placements.
- A3. Offer a broad, relevant and contemporary curriculum, enriched by the scholarly activity of staff and support of employers in the sector.

- A4. Provide opportunities to develop students' field based practical skills, laboratory based practical skills and experiential learning in aspects of Applied Zoology and Conservation.
- A5. Develop autonomous learning skills including academic research skills. Promoting students' ability to critically analyse, assess and evaluate data gathered both in the field and through scientific literature, all required attributes for natural career development or progression academically.

PS6. Programme Intended Learning Outcomes (ILO)

By the end of this programme the student will be able to:

- LO1. Evaluate the political and socioeconomic factors which form and influence zoological conservation and recognise the ethical implications of zoological conservation, demonstrating an understanding of the roles and responsibilities of regulatory and advisory bodies.
- LO2. Effectively communicate information, arguments and analysis, in a variety of forms, to specialist and non-specialist audiences, and deploy key techniques in the study of zoological conservation and in a work context.
- LO3. Demonstrate knowledge of the main methods of enquiry in zoological conservation, and the ability to evaluate critically the appropriateness of different approaches to solving problems in zoological conservation and apply these in a work context.
- LO4. Relate the biological factors limiting the populations of animals to the management of animal collections both in the wild and in captivity.
- LO5. Present an accurate understanding of zoology at a variety of levels (from molecular to ecological systems) and put this into context of evolutionary theory.
- LO6. Demonstrate a range of practical observation, survey and analytical skills appropriate for conservation management.
- LO7. Critically evaluate their role within a relevant work placement conducted during the course of the programme.

PS7. Distinctive Features

This text is definitively approved at programme approval and therefore may be directly used for promotion of the programme without the need for further confirmation:

The distinctive features of the course involve:

Location

- Cornwall College's Newquay campus benefits from its location with a range of terrestrial and marine habitats on our doorstep, allowing for experiential and applied methods of learning zoology and conservation.

- We are located right next to our partner, Newquay Zoo, which the students have free access and priority work placements with.

Facilities

- The campus at Newquay is small and friendly with a low staff to student ratio which means smaller class sizes allowing a more supportive and personal learning environment. It is surrounded by its own grounds and gardens and is adjacent to Newquay Zoo and Trenance Park. The college also has two classrooms on Tolcarne beach.

Partnerships and industry links

- The college has direct industry partnerships with Newquay Zoo and Blue Reef Aquarium.
- Partnership with local marine ecotourism operators enables boat based survey experience to be easily accessible to students.
- The programme benefits from well-established links to local, national and international conservation organisations providing excellent opportunities for students to develop skills and knowledge needed for employment in the field.
- Links with a wide range of zoos, museums and aquaria provide excellent experience for developing students' abilities to interpret the natural world and apply zoology and conservation based theory to *ex situ* conservation strategies.

Teaching and learning

- This programme will deliver a detailed theoretical knowledge and understanding of zoology and conservation and also develop strong practical skills in data collection, including contribution to national taxon specific surveys.
- There will be opportunities for students to gain experience in funding, managing and communicating the findings of a conservation based project. These are listed as essential skills by high profile employers in the sector such as National Trust, RSPB, and Natural England.
- A variety of trips to local facilities such as the Cornish Seal Sanctuary, Screech Owl Sanctuary, National Marine Aquarium, Paignton Zoo and Dartmoor Zoo are used to enhance the curriculum. Optional fieldtrip opportunities are available to Portugal, Egypt and Borneo.
- Strong pastoral support and small group academic teaching delivered by readily accessible academic and support staff.

Staff

- The teaching staff are active in both marine and terrestrial ecology and biology. Staff are members and committee members of Cornwall Reptile and Amphibian Group (CRAG), Cornwall Mammal Group and The Mammal Society.
- Teaching staff are active in voluntary marine conservation with groups in the area such as British Divers Marine Life Rescue, Cornwall Seal Group and various local marine groups such as the St Agnes and Newquay Marine Conservation Groups, Cornwall Wildlife Trust projects (Strandings programme, Seaquest, PANACHE, Intertidal discovery).
- Teaching staff are research active with members of staff on the editorial boards of a number of zoology and conservation based research journals.

Students:

- SINNG (Student Invasive and Non Native Group) is a DEFRA funded, national award winning student-led local action group

PS8. Student Numbers

The following provides information that should be considered nominal, and therefore not absolutely rigid, but is of value to guide assurance of the quality of the student experience, functional issues around enabling progression opportunities to occur and staffing and resource planning:

Minimum student numbers per stage = 12

Target student numbers per stage =16

Maximum student numbers per stage =20

PS9. Progression Route(s)

Graduates will also be encouraged to consider progression on to appropriate Masters Study, or supported in their pursuit of employment opportunities.

The contribution of marks from prior levels of study to the progression award is governed by University regulations.

PS10. Admissions Criteria

Qualification(s) Required for Entry to this Programme:	Details:
Level 2: GCSE and level 2 equivalents:	5 passes at grades A-C, including Science/Biology, Maths and English Language- other level 2 equivalents considered
Level 3: at least one of the following: <ul style="list-style-type: none"> - A Levels required to meet AS/A2/UCAS Points Tariff: - Advanced Level Diploma: - BTEC National Certificate/Diploma: - HNC/D: - VDA: AGNVQ, AVCE, AVS: - Access to HE or Year 0 provision: - International Baccalaureate: - Irish / Scottish Highers / Advanced Highers: 	80 UCAS Tariff points from a combination of A-level/AS-level to include 56 points from a science subject at A2. Environmental or science related subjects Equivalent to 'MMM' at Extended Diploma in a science related subject Environmental or science related subjects, overall pass grade Normally, relevant AGNVO at pass Successful completion of a relevant Access to HE programme including unit in biology, with an additional unit in either chemistry, mathematics or quantitative methods desirable. 45 credits should be at Merit or above. 24 IB Diploma points 80 UCAS tariff points to include at least 56 points in a science subject
Work Experience:	Assessed on application
Other non-standard awards or experiences:	To be reviewed during application process
APEL / APCL possibilities:	Applications are considered on an individual basis in accordance with the academic regulations
Interview / Portfolio requirements:	Interviews MAY be required by the tutor
Independent Safeguarding Agency (ISA) / Criminal Record Bureau (CRB) clearance required:	All students will require this check if they may be working with young people
Other requirements:	There is a compulsory fieldwork component to the course which will involve physical activity. Applicants who are not confident that they will be capable of this requirement should discuss support needs with the course coordinator.

PS11. Academic Standards and Quality Enhancement

The Programme Leader/Manager (or the descriptor) leads the Programme Committee in the Plymouth University's annual programme monitoring process (APM), as titled at the time of approval. APM culminates in the production, maintenance and employment of a programme level Action Plan, which evidences appropriate management of the programme in terms of quality and standards. Any formally agreed changes to this process will continue to be followed by the Programme Leader/Manager (or other descriptor) and their Programme Committee.

Subject External Examiner(s):

The following modules are parented by this programme and therefore covered by this programme's external examiner.

Level 4

Key Professional Skills (CORN162)
Animals and their Environment (CORN163)

Level 5

Vertebrate Zoology (CORN272)
Population Genetics and Community Ecology (CORN273)
Biosecurity and Invasive Species (CORN274)
Zoological Conservation in Practice (CORN275)
Research Methods and GIS for Zoology (CORN276)
Primate Behaviour and Conservation (CORN278)
Advanced Ecology and Survey Techniques (CORN292)

Level 6

Conservation Project Management (CORN314)
Conservation Genetics (CORN315)

An Interim visit by External Examiner (EE) (usually between January and February) will review work that has been marked, consult students and feed back to the programme manager and module leaders and course team.

Subject Assessment Panel (SAP) reviews the assessment marking and is scrutinised by the subject EE. Representatives of the team review and present their module marks for each student on the programme.

The annual Award Assessment Board (AAB) takes place with Programme Manager, the awarding body's partnership member and the External to receive the students work and confer progression or award.

Additional stakeholders specific to this programme:

Students have the opportunity to discuss the programme independently, twice a year in the Student Review. This forms part of the discussion for the annual programme monitoring in the autumn and spring of each academic year.

The Student Perception Questionnaire (SPQ) is administered during the year and feeds into the programme review.

Students Representatives attend Annual Programme Monitoring (APM) to contribute student views alongside Module Leaders, the Programme Manager and the Assistant Registrar to monitor module delivery and the course provision.

Curriculum meetings take place once a month to review progression, department provision, resources and staffing.

Employers are invited to an Employer's Forum held twice a year, whereby development of programme, modules, assessment and further employer links for work-related study and work experience placements are discussed and embedded into the programme. Current students on the programme will be asked to elect a student representative from each year. This student will be provided with regular time slots within the group tutorial slot to hold an open discussion with their fellow colleagues, highlighting any issues that need raising, These points are then brought to the student representative meetings attended by a member of the senior management, a member of the student union, and a senior tutor. Minutes of these meetings are passed on to the relevant management level for action. All current students will contribute towards course development through termly student review meetings, held within group tutorials, and end of module reviews- with particular emphasis on assessment type and range, and sector specific skills development.

PS12. Programme Structure

College	Cornwall College, Newquay	Programme Title	BSc (Hons) Applied Zoology and Conservation with Placement		
Academic Year	2019-2020	Mode of Attendance	Part Time (4 Years)		
Plymouth Programme Code	4900	Total Credits	Level 4 (120 credits) Level 5 (120 credits) Level 6 (120 credits)		
BSc (Hons) Applied Zoology and Conservation					
F/T Route Year	When in Year? (I.e. Autumn, Spring etc.)	Core or Optional	Credits	Module	
FHEQ - Level 4 (120 credits) Year 1					
1	AY	Core	20	CORN1000 Fundamentals of Biology	
1	AY	Core	20	CORN1002 Diversity, Classification and Evolution	
1	AY	Core	20	CORN1003 Hygiene, Health and Welfare of Captive Animals	
1	AY	Core	20	CORN162 Key Professional Skills	
1	AY	Core	20	CORN1001 Field Survey Techniques	
1	AY	Core	20	CORN163 Animals and their Environment	
FHEQ - Level 5 (120 credits) Year 2					
2	AY	Core	20	CORN241 Vertebrate Zoology & Conservation	
2	AY	Core	20	CORN273 Population Genetics and Community Ecology	
2	AY	Core	20	CORN2016 Global Conservation Issues	
2	AY	Core	20	CORN275 Zoological Conservation in Practice	
2	AY	Core	20	CORN276 Research Methods and GIS for Zoology	
2	AY	Optional	20	CORN2017 Behavioural Ecology	
2	AY	Optional	20	CORN278 Primate Behaviour and Conservation	
2	AY	Optional	20	CORN2018 Marine Vertebrate Biology and Conservation	
2	AY	Optional	20	CORN271 Advanced Ecology and Survey Techniques	
FHEQ – Level 6 (120 credits) Year 3					
3	AY	Core	40	CORN310 Honours Project	
3	AY	Core	20	CORN314 Conservation Project Management	
3	AY	Core	20	CORN315 Conservation Genetics	
3	AY	Core	20	CORN306 Application of Zoology	
3	AY	Optional	20	CORN304 Zoology and Conservation of Aquatic Ecosystems	
3	AY	Optional	20	CORN313 Wildlife Conservation	
3	AY	Optional	20	CORN316 Monitoring Marine Ecosystems	
FHEQ Level 6 Placement Year					
3	AY	Core	0	CORN326 Placement Project	

NB: No optional module will run with less than 6 students. Any exception to this will need to be agreed with the relevant Cluster Director.

PS13. Explanation and Mapping of Learning Outcomes, Teaching & Learning and Assessment

Developing graduate attributed and skills, at any level of HE, is dependent on the clarity of strategies and methods for identifying the attributes and skills relevant to the programme and where and how these are operationalised. The interrelated factors of Teaching, Learning and Assessment and how these are inclusive in nature, are fundamentally significant to these strategies and methods, as are where and how these are specifically distributed within the programme.

Ordered by graduate attributes and skills, the following table provides a map of the above, plus an exposition to describe and explain the ideas and strategy of each. Therefore, subsequent to the initial completion for approval, maintenance of this table as and when programme structure changes occur is also important:

Level 4: BSc (Hons) Applied Zoology and Conservation					
Definitions of Graduate Attributes and Skills Relevant to this Programme	Teaching and Learning Strategy / Methods	Prog Aims	Prog intended Learning Outcomes	Range of Assessments	Related <u>Core</u> Modules
<p>Knowledge / Understanding: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>Engagement with the essential facts, major concepts, principles and theories associated with the chosen discipline. Knowledge of the processes and mechanisms that have shaped the natural world in terms, for example, of the spread of time from the geological to the present and of complexity from the environmental to the cellular. The influence on living systems of human activities (and the converse) could also be considered</p> <p>Threshold standard:</p>	<p>Primary: Lectures and tutorials</p> <p>Practical laboratory and husbandry sessions</p> <p>Industry visits</p> <p>Guided independent study</p> <p>Learning from extended work placements</p> <p>Secondary/Supplementary: Site visits to animal collections, Natural History Museum, Eden Project.</p>	A1, A3, A4, A5	LO1, LO2, LO3, LO6	Essays In class tests Exams Management plans Reports Poster/ presentations	<p>Level 4 CORN163: Animals and their Environment</p> <p>CORN115: Diversity, Classification and Evolution</p> <p>CORN171: Introduction to Zoology</p>

<ul style="list-style-type: none"> • Describe how organisms are classified and identified. • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits its environment. • Describe the place of the organisms studied in the living world. • Have an understanding of the explanation of biological phenomena at a variety of levels (from molecular to ecological systems) and be able to explain how evolutionary theory is relevant to their area of study. • Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation. 	<p>Additional lecture information available on VLE- Moodle.</p>				
<p>Competence in the basic experimental skills appropriate to Zoology and Conservation. Threshold standard:</p> <ul style="list-style-type: none"> • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses 	<p>Primary: Lectures Independent guided study Practical workshops</p> <p>Secondary/Supplementary: Site visits to Electron Microscope, MBA</p> <p>Guest workshops run by ecological consultants and specialists.</p>	<p>A1, A4, A5</p>	<p>LO3, LO4, LO8</p>	<p>Reports Assessed practicals In class tests Exams</p>	<p>Level 4 CORN162: Key Professional Skills ZOO6: Fieldwork CORN171: Introduction to Zoology CORN115: Diversity, Classification and Evolution CORN154: Hygiene, Health and Welfare of Captive Animals</p>

	Additional lecture information available on VLE- Moodle.				CORN163: Animals and their Environment
By the end of this level of this programme the students will be able to demonstrate a knowledge of a range of communication techniques and methodologies relevant to zoology and conservation, including data analysis and the use of statistics. Threshold standard: <ul style="list-style-type: none"> Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study 	Primary: Independent guided study Practical workshops Group seminars/ group work Secondary/Supplementary: Research seminars Additional lecture information available on VLE- Moodle.	A1, A2, A5	LO2, LO3	Essays Management plans Reports Poster/ presentations	Level 4 CORN162: Key Professional Skills
An exposition for embedding Knowledge and Understanding through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated a given factual and/or conceptual knowledge base with emphasis on the nature of the field of study and appropriate terminology and can demonstrate awareness of ethical issues associated with the subject.					
Cognitive and Intellectual Skills: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007) By the end of this level of this programme the students will be able to demonstrate an appreciation of the complexity and diversity of life processes through the study of organisms, their molecular, cellular and physiological processes, their genetics and evolution, and the interrelationships between them and their environment. A threshold pass:	Primary: Lectures Independent guided study Practical workshops Group seminars/group work Secondary/Supplementary: Research seminars Additional lecture information available on VLE- Moodle.	A1, A4, A5	LO4, LO5, LO6	Essays Management plans Reports Poster/ presentations	ALL CORE MODULES

<ul style="list-style-type: none"> • Describe the structure, diversity and reproduction of the organisms studied • Describe basic organism structure and diversity • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits it for its environment show knowledge of the basic genetic principles relating to, and evolution of, the organisms studied • Describe the place of the organisms studied in the living world. • Appreciate the importance of the 'behaviour' of the organisms studied. • Demonstrate knowledge of biogeochemical cycles and pathways • Describe and exemplify nutrient and energy flow through individuals, populations and communities • Describe and exemplify patterns of distribution of organisms in relation to biotic and abiotic factors • Demonstrate knowledge of population processes, dynamics and interactions, and associated theoretical models • Demonstrate knowledge of community structure, development, biodiversity, and associated theoretical models • Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation 				
--	--	--	--	--

<p>By the end of this level of this programme the students will be able to demonstrate the ability to read and use appropriate literature with a full and critical understanding, while addressing such questions as content, context, aims, objectives, quality of information, and its interpretation and application.</p> <p>Threshold standard:</p> <ul style="list-style-type: none"> Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study. 	<p>Primary: Lectures Independent guided study Practical workshops Group seminars</p> <p>Secondary/Supplementary: Additional information and tasks available on VLE-Moodle</p>	A1, A2, A4, A5	LO2, LO3, LO6	Literature reviews Essay Reports Presentations.	<p>Level 4 CORN162: Key Professional Skills</p> <p>CORN115: Diversity, Classification and Evolution</p>
<p>By the end of this level of this programme the students will be able to demonstrate the ability to think independently, set tasks and solve problems.</p> <p>Threshold standard:</p> <ul style="list-style-type: none"> Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses 	<p>Primary: Independent guided study Practical workshops</p> <p>Secondary/Supplementary: Additional information and tasks available on VLE-Moodle</p>	A1, A2, A4, A5	LO2, LO3, LO6	Assessed practicals In class tests Exams Project report and presentations	<p>Level 4 CORN162: Key Professional Skills</p> <p>CORN115: Diversity, Classification and Evolution</p>
<p>By the end of this level of this programme the students will be able to demonstrate, analyse, synthesise and summarise information critically, including published research or reports.</p> <p>Threshold standard:</p> <ul style="list-style-type: none"> Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study 	<p>Primary: Lectures Independent guided study Practical workshops Group seminars</p> <p>Secondary/Supplementary: Additional information and tasks available on VLE-Moodle</p>	A1, A2, A4, A5	LO2, LO3, LO6	Literature reviews Essays Reports Presentations	<p>Level 4 CORN162: Key Professional Skills</p> <p>CORN115: Diversity, Classification and Evolution</p>
<p>By the end of this level of this programme the students will be able to demonstrate obtain and</p>	<p>Primary: Lectures Independent guided study</p>	A1, A2, A4, A5	LO1, LO2, LO3, LO5, LO6	Reports Presentations	<p>Level 4 CORN171: Introduction to Zoology</p>

<p>integrate several lines of subject-specific evidence to formulate and test hypotheses. Threshold standard:</p> <ul style="list-style-type: none"> Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident 	<p>Practical workshops Group seminars</p> <p>Secondary/Supplementary: Additional information and tasks available on VLE-Moodle</p>			<p>Practical workshops Assessed practicals</p>	<p>ZOO6: Fieldwork CORN162: Key Professional Skills</p>
<p>By the end of this level of this programme the students will be able to demonstrate recognise the moral and ethical issues of investigations and appreciate the need for ethical standards and professional codes of conduct. Threshold standard:</p> <ul style="list-style-type: none"> Have some understanding of ethical issues and the impact on society of advances in the biosciences 	<p>Primary: Lectures Independent guided study Practical workshops</p> <p>Secondary/Supplementary: Visits to collections and such as Natural History Museum, Paignton Zoo, Dartmoor Zoo</p>	<p>A1, A3, A5</p>	<p>LO1, LO2</p>	<p>Debate Reports Presentations</p>	<p>Level 4 CORN171: Introduction to Zoology ZOO6: Fieldwork CORN162: Key Professional Skills CORN163: Animals and their Environment</p>
<p>An exposition for embedding Cognitive and Intellectual Skills through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated the ability to analyse with guidance given classifications/guidance, can collect and categorise ideas and information in a predictable and standard format, can evaluate the reliability of data using defined techniques and/or tutor guidance and can apply given tools/methods accurately and carefully to a well-defined problem and begin to appreciate the complexity of the issues.</p>					
<p>Key Transferable Skills: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>By the end of this level of this programme the students will be able to communicate about their subject appropriately to a variety of audiences using a range of formats and</p>	<p>Primary: Lectures Seminars Guided independent study</p>	<p>A2, A3, A5</p>	<p>LO1, LO7</p>	<p>Posters Presentations and digital displays</p>	<p>ALL CORE MODULES</p>

<p>approaches, using appropriate scientific language.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study • Recognise and respect the views and opinions of other team members including negotiating skills • Evaluate performance as an individual and a team member; evaluate the performance of others 	<p>Workshops</p> <p>Secondary/Supplementary: Guided practical and laboratory experience Guest lectures and visits Attendance at Cornwall College Newquay Research and Scholarly day Work placement</p>			<p>Personal evaluation Viva voce Management plan</p>	
<p>An exposition for embedding Key Transferable Skills through Teaching & Learning and Assessment at this level of the programme:</p> <p>The learner can work effectively with others as members of a group and meet obligations to others; they can work within an appropriate ethos and can access and use a range of learning resources; they can evaluate their own strengths and weaknesses within criteria largely set by others; they can manage information, collect appropriate data from a range of sources and undertake simple research tasks with external guidance; they can take responsibility for their own learning with appropriate support; they can communicate effectively and report practical procedures in a clear and concise manner; they can apply given tools / methods accurately and carefully to a well-defined problem and appreciate the complexity of the issues in the discipline.</p>					
<p>Employment Related Skills:</p> <p>For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>By the end of this level of this programme the students will be able to demonstrate the skills necessary for self-managed and lifelong learning (e.g. working independently, time management, organisational, enterprise and knowledge transfer skills)</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Be able to plan, execute and present an independent piece of hypothesis-driven 	<p>Primary: Self-directed voluntary work Compulsory work experience Independent guided workshops</p> <p>Secondary/Supplementary: Guest seminars and lectures</p>	<p>A1, A2, A3, A4, A5</p>	<p>LO2, LO3, LO6, LO7</p>	<p>Poster presentations Reflective summary Personal evaluations</p>	<p>Level 4 CORN162: Key Professional Skills</p>

<p>work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident</p> <ul style="list-style-type: none"> • Have developed basic strategies to enable them to update their knowledge of the biosciences • Develop an adaptable, flexible and effective approach to study and work 	<p>Study groups and supplementary group tasks/ research activities</p>				
<p>An exposition for embedding Employment Related Skills through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated an understanding of organisational and work based practices; they have out theory in to practice by applying and developing discipline relates skills, knowledge and understanding.</p>					
<p>Practical Skills: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>By the end of this level of this programme the students will be able to demonstrate the ability to design, plan, conduct and report on investigations, which may involve primary or secondary data (e.g. from a survey database). These data may be obtained through individual or group projects.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate) • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported 	<p>Primary: Lectures Independent guided study Practical workshops Research tutorials</p> <p>Secondary/Supplementary: Visits to Electron Microscope and MBA Guest workshops run by ecological consultants and specialists Additional lecture information available on VLE- Moodle</p>	<p>A1, A2, A4, A5</p>	<p>LO3, LO5, LO6</p>	<p>Reports Presentations Assessed practicals In class tests Exams</p>	<p>Level 4 CORN162: Key Professional Skills ZOO6: Fieldwork CORN171: Introduction to Zoology CORN115: Diversity, Classification and Evolution</p>

<p>framework in which qualities such as time management, problem solving, and independence are evident</p> <ul style="list-style-type: none"> • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses 					<p>CORN154: Hygiene, Health and Welfare of Captive Animals</p> <p>CORN163: Animals and their Environment</p>
<p>By the end of this level of this programme the students will be able to demonstrate the ability to design, plan, conduct and report on investigations, which may involve primary or secondary data (e.g. from a survey database). These data may be obtained through individual or group projects.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate). • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident. • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses. 	<p>Primary: Lectures Independent guided study Practical workshops Research tutorials</p> <p>Secondary/Supplementary: Visits to Electron Microscope, MBA Guest workshops run by ecological consultants and specialists. Additional lecture information available on VLE- Moodle</p>	<p>A1, A2, A4, A5</p>	<p>LO3, LO5, LO6</p>	<p>Reports, presentations, assessed practicals, in class tests, exams</p>	<p>Level 4 CORN162: Key Professional Skills</p> <p>ZOO6: Fieldwork</p> <p>CORN171: Introduction to Zoology</p> <p>CORN115: Diversity, Classification and Evolution</p> <p>CORN154: Hygiene, Health and Welfare of Captive Animals</p> <p>CORN163: Animals and their Environment</p>
<p>By the end of this level of this programme the students will be able to undertake field and/or laboratory investigations of living systems in a</p>	<p>Primary: Lectures Independent guided study</p>	<p>A1, A3, A4, A5</p>	<p>LO2, LO3, LO5, LO6</p>	<p>Reports, presentations, assessed</p>	<p>Level 4 CORN162: Key Professional Skills</p>

<p>responsible, safe and ethical manner. For example, students must pay due attention to risk assessment, relevant health and safety regulations, issues relating to animal welfare and procedures for obtaining informed consent. They should show sensitivity to the impact of investigations on the environment, on the organisms or subjects under investigation, and on other stakeholders.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Appreciate the interactions of organisms with each other and the environment • Have some understanding of ethical issues and the impact on society of advances in the biosciences • Have developed basic strategies to enable them to update their knowledge of the biosciences. 	<p>Practical workshops Research tutorials</p> <p>Secondary/Supplementary: Additional lecture information available on VLE- Moodle. Information through Home Office, RSPCA, ethical review process</p>		<p>practicals, in class tests, exams</p>	<p>ZOO6: Fieldwork</p> <p>CORN171: Introduction to Zoology</p> <p>CORN115: Diversity, Classification and Evolution</p> <p>CORN154: Hygiene, Health and Welfare of Captive Animals</p> <p>CORN163: Animals and their Environment</p>
--	--	--	--	---

An exposition for embedding Practical Skills through Teaching & Learning and Assessment at this level of the programme:

Learners will have demonstrated an ability to apply practical skills developed within the course to a wide variety of industry related scenarios and will be required to complete a range of practical based skills assessments throughout this unit.

Level 5: BSc (Hons) Applied Zoology and Conservation					
Definitions of Graduate Attributes and Skills Relevant to this Programme	Teaching and Learning Strategy / Methods	Prog Aims	Prog intended Learning Outcomes	Range of Assessments	Related <u>Core</u> Modules
<p>Knowledge / Understanding: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>Engagement with the essential facts, major concepts, principles and theories associated</p>	<p>Primary: Lectures and tutorials</p>	<p>A1, A3, A4, A5</p>	<p>LO1, LO2, LO3, LO6</p>	<p>Essays In class tests</p>	<p>Level 5</p>

<p>with the chosen discipline. Knowledge of the processes and mechanisms that have shaped the natural world in terms, for example, of the spread of time from the geological to the present and of complexity from the environmental to the cellular. The influence on living systems of human activities (and the converse) could also be considered</p> <p>Threshold standard:</p> <ul style="list-style-type: none"> • Describe how organisms are classified and identified. • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits its environment. • Describe the place of the organisms studied in the living world. • Have an understanding of the explanation of biological phenomena at a variety of levels (from molecular to ecological systems) and be able to explain how evolutionary theory is relevant to their area of study. • Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation. 	<p>Practical laboratory and husbandry sessions</p> <p>Industry visits</p> <p>Guided independent study</p> <p>Learning from extended work placements</p> <p>Secondary/Supplementary: Site visits to animal collections, Natural History Museum, Eden Project.</p> <p>Additional lecture information available on VLE- Moodle.</p>			<p>Exams</p> <p>Management plans</p> <p>Reports</p> <p>Poster/ presentations</p>	<p>CORN272: Vertebrate Zoology</p> <p>CORN274: Biosecurity and Invasive Species</p> <p>CORN273: Population Genetics and Community Ecology</p>
<p>Competence in the basic experimental skills appropriate to Zoology and Conservation.</p> <p>Threshold standard:</p> <ul style="list-style-type: none"> • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses 	<p>Primary: Lectures</p> <p>Independent guided study</p> <p>Practical workshops</p>	<p>A1, A4, A5</p>	<p>LO3, LO4, LO8</p>	<p>Reports</p> <p>Assessed practicals</p> <p>In class tests</p> <p>Exams</p>	<p>Level 5</p> <p>CORN275: Zoological Conservation in Practice</p> <p>CORN274: Biosecurity and Invasive Species</p>

	<p>Secondary/Supplementary: Site visits to Electron Microscope, MBA</p> <p>Guest workshops run by ecological consultants and specialists.</p> <p>Additional lecture information available on VLE- Moodle.</p>				CORN273: Population Genetics and Community Ecology
<p>By the end of this level of this programme the students will be able to demonstrate knowledge of a range of communication techniques and methodologies relevant to zoology and conservation, including data analysis and the use of statistics.</p> <p>Threshold standard:</p> <ul style="list-style-type: none"> Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study 	<p>Primary: Independent guided study Practical workshops</p> <p>Group seminars/ group work</p> <p>Secondary/Supplementary: Research seminars</p> <p>Additional lecture information available on VLE- Moodle.</p>	A1, A2, A5	LO2, LO3	Essays Management plans Reports Poster/ presentations	Level 5 CORN275: Zoological Conservation in Practice
<p>An exposition for embedding Knowledge and Understanding through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated a given factual and/or conceptual knowledge base with emphasis on the nature of the field of study and appropriate terminology and can demonstrate awareness of ethical issues associated with the subject.</p>					
<p>Cognitive and Intellectual Skills: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>By the end of this level of this programme the students will be able to demonstrate an appreciation of the complexity and diversity of</p>	<p>Primary: Lectures Independent guided study</p>	A1, A4, A5	LO4, LO5, LO6	Essays Management plans	ALL CORE MODULES

<p>life processes through the study of organisms, their molecular, cellular and physiological processes, their genetics and evolution, and the interrelationships between them and their environment.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Describe the structure, diversity and reproduction of the organisms studied • Describe basic organism structure and diversity • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits it for its environment show knowledge of the basic genetic principles relating to, and evolution of, the organisms studied • Describe the place of the organisms studied in the living world. • Appreciate the importance of the 'behaviour' of the organisms studied. • Demonstrate knowledge of biogeochemical cycles and pathways • Describe and exemplify nutrient and energy flow through individuals, populations and communities • Describe and exemplify patterns of distribution of organisms in relation to biotic and abiotic factors • Demonstrate knowledge of population processes, dynamics and interactions, and associated theoretical models 	<p>Practical workshops Group seminars/group work</p> <p>Secondary/Supplementary: Research seminars Additional lecture information available on VLE- Moodle.</p>		<p>Reports Poster/ presentations</p>	
--	---	--	--	--

<ul style="list-style-type: none"> • Demonstrate knowledge of community structure, development, biodiversity, and associated theoretical models • Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation 					
<p>By the end of this level of this programme the students will be able to demonstrate obtain and integrate several lines of subject-specific evidence to formulate and test hypotheses. Threshold standard:</p> <ul style="list-style-type: none"> • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident 	<p>Primary: Lectures Independent guided study Practical workshops Group seminars</p> <p>Secondary/Supplementary: Additional information and tasks available on VLE- Moodle</p>	A1, A2, A4, A5	LO1, LO2, LO3, LO5, LO6	Reports Presentations Practical workshops Assessed practicals	<p>Level 5 CORN272: Vertebrate Zoology</p>
<p>By the end of this level of this programme the students will be able to demonstrate recognise the moral and ethical issues of investigations and appreciate the need for ethical standards and professional codes of conduct. Threshold standard:</p> <ul style="list-style-type: none"> • Have some understanding of ethical issues and the impact on society of advances in the biosciences 	<p>Primary: Lectures Independent guided study Practical workshops</p> <p>Secondary/Supplementary: Visits to collections and such as Natural History Museum, Paignton Zoo, Dartmoor Zoo</p>	A1, A3, A5	LO1, LO2	Debate Reports Presentations	<p>Level 5 CORN272: Vertebrate Zoology</p> <p>CORN274: Biosecurity and Invasive Species</p>
<p>An exposition for embedding Cognitive and Intellectual Skills through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated the ability to analyse with guidance given classifications/guidance, can collect and categorise ideas and information in a predictable and standard format, can evaluate the reliability of data using defined techniques and/or tutor guidance and can apply given tools/methods accurately and carefully to a well-defined problem and begin to appreciate the complexity of the issues.</p>					
<p>Key Transferable Skills:</p>					

<p>For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>By the end of this level of this programme the students will be able to communicate about their subject appropriately to a variety of audiences using a range of formats and approaches, using appropriate scientific language.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study • Recognise and respect the views and opinions of other team members including negotiating skills • Evaluate performance as an individual and a team member; evaluate the performance of others 	<p>Primary: Lectures Seminars Guided independent study Workshops</p> <p>Secondary/Supplementary: Guided practical and laboratory experience Guest lectures and visits Attendance at Cornwall College Newquay Research and Scholarly day Work placement</p>	<p>A2, A3, A5</p>	<p>LO1, LO7</p>	<p>Posters Presentations and digital displays Personal evaluation Viva voce Management plan</p>	<p>ALL CORE MODULES</p>
<p>An exposition for embedding Key Transferable Skills through Teaching & Learning and Assessment at this level of the programme:</p> <p>The learner can work effectively with others as members of a group and meet obligations to others; they can work within an appropriate ethos and can access and use a range of learning resources; they can evaluate their own strengths and weaknesses within criteria largely set by others; they can manage information, collect appropriate data from a range of sources and undertake simple research tasks with external guidance; they can take responsibility for their own learning with appropriate support; they can communicate effectively and report practical procedures in a clear and concise manner; they can apply given tools / methods accurately and carefully to a well-defined problem and appreciate the complexity of the issues in the discipline.</p>					
<p>Employment Related Skills:</p> <p>For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p>					

<p>By the end of this level of this programme the students will be able to demonstrate the skills necessary for self-managed and lifelong learning (e.g. working independently, time management, organisational, enterprise and knowledge transfer skills)</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident • Have developed basic strategies to enable them to update their knowledge of the biosciences • Develop an adaptable, flexible and effective approach to study and work 	<p>Primary: Self-directed voluntary work Compulsory work experience Independent guided workshops</p> <p>Secondary/Supplementary: Guest seminars and lectures Study groups and supplementary group tasks/ research activities</p>	<p>A1, A2, A3, A4, A5</p>	<p>LO2, LO3, LO6, LO7</p>	<p>Poster presentations Reflective summary Personal evaluations</p>	<p>Level 5 CORN275: Zoological Conservation in Practice</p>
<p>An exposition for embedding Employment Related Skills through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated an understanding of organisational and work based practices; they have out theory in to practice by applying and developing discipline relates skills, knowledge and understanding.</p>					
<p>Practical Skills: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>By the end of this level of this programme the students will be able to demonstrate the ability to design, plan, conduct and report on investigations, which may involve primary or secondary data (e.g. from a survey database).</p>	<p>Primary: Lectures Independent guided study Practical workshops Research tutorials</p>	<p>A1, A2, A4, A5</p>	<p>LO3, LO5, LO6</p>	<p>Reports Presentations Assessed practicals In class tests Exams</p>	<p>Level 5 CORN275: Zoological Conservation in Practice CORN274: Biosecurity and Invasive Species</p>

<p>These data may be obtained through individual or group projects. A threshold pass:</p> <ul style="list-style-type: none"> • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate) • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses 	<p>Secondary/Supplementary: Visits to Electron Microscope and MBA Guest workshops run by ecological consultants and specialists Additional lecture information available on VLE- Moodle</p>				<p>CORN273: Population Genetics and Community Ecology</p>
<p>By the end of this level of this programme the students will be able to demonstrate the ability to design, plan, conduct and report on investigations, which may involve primary or secondary data (e.g. from a survey database). These data may be obtained through individual or group projects. A threshold pass:</p> <ul style="list-style-type: none"> • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate). • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time 	<p>Primary: Lectures Independent guided study Practical workshops Research tutorials</p> <p>Secondary/Supplementary: Visits to Electron Microscope, MBA Guest workshops run by ecological consultants and specialists. Additional lecture information available on VLE- Moodle</p>	<p>A1, A2, A4, A5</p>	<p>LO3, LO5, LO6</p>	<p>Reports, presentations, assessed practicals, in class tests, exams</p>	<p>Level 5 CORN275: Zoological Conservation in practice CORN274: Biosecurity and Invasive Species CORN273: Population Genetics and Community Ecology</p>

<p>management, problem solving, and independence are evident.</p> <ul style="list-style-type: none"> • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses. 					
<p>By the end of this level of this programme the students will be able to undertake field and/or laboratory investigations of living systems in a responsible, safe and ethical manner. For example, students must pay due attention to risk assessment, relevant health and safety regulations, issues relating to animal welfare and procedures for obtaining informed consent. They should show sensitivity to the impact of investigations on the environment, on the organisms or subjects under investigation, and on other stakeholders.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Appreciate the interactions of organisms with each other and the environment • Have some understanding of ethical issues and the impact on society of advances in the biosciences • Have developed basic strategies to enable them to update their knowledge of the biosciences. 	<p>Primary: Lectures Independent guided study Practical workshops Research tutorials</p> <p>Secondary/Supplementary: Additional lecture information available on VLE- Moodle. Information through Home Office, RSPCA, ethical review process</p>	<p>A1, A3, A4, A5</p>	<p>LO2, LO3, LO5, LO6</p>	<p>Reports, presentations, assessed practicals, in class tests, exams</p>	<p>Level 5 CORN275: Zoological Conservation in practice CORN274: Biosecurity and Invasive Species CORN273: Population Genetics and Community Ecology</p>
<p>An exposition for embedding Practical Skills through Teaching & Learning and Assessment at this level of the programme: Learners will have demonstrated an ability to apply practical skills developed within the course to a wide variety of industry related scenarios and will be required to complete a range of practical based skills assessments throughout this unit.</p>					

Level 6: BSc (Hons) Applied Zoology and Conservation					
Definitions of Graduate Attributes and Skills Relevant to this Programme	Teaching and Learning Strategy / Methods	Prog Aims	Prog intended Learning Outcomes	Range of Assessments	Related <u>Core</u> Modules
<p>Knowledge / Understanding: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>Engagement with the essential facts, major concepts, principles and theories associated with the chosen discipline. Knowledge of the processes and mechanisms that have shaped the natural world in terms, for example, of the spread of time from the geological to the present and of complexity from the environmental to the cellular. The influence on living systems of human activities (and the converse) could also be considered</p> <p>Threshold standard:</p> <ul style="list-style-type: none"> • Describe how organisms are classified and identified. • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits its environment. • Describe the place of the organisms studied in the living world. • Have an understanding of the explanation of biological phenomena at a variety of levels (from molecular to ecological systems) and be able to explain how evolutionary theory is relevant to their area of study. 	<p>Primary: Lectures and tutorials</p> <p>Practical laboratory and husbandry sessions</p> <p>Industry visits Guided independent study</p> <p>Learning from extended work placements</p> <p>Secondary/Supplementary: Site visits to animal collections, Natural History Museum, Eden Project.</p> <p>Additional lecture information available on VLE- Moodle.</p>	A1, A3, A4, A5	LO1, LO2, LO3, LO6	Essays In class tests Exams Management plans Reports Poster/ presentations	Level 6 CORN315: Conservation Genetics

<ul style="list-style-type: none"> Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation. 					
<p>Competence in the basic experimental skills appropriate to Zoology and Conservation. Threshold standard:</p> <ul style="list-style-type: none"> Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses 	<p>Primary: Lectures Independent guided study Practical workshops</p> <p>Secondary/Supplementary: Site visits to Electron Microscope, MBA</p> <p>Guest workshops run by ecological consultants and specialists.</p> <p>Additional lecture information available on VLE- Moodle.</p>	<p>A1, A4, A5</p>	<p>LO3, LO4, LO8</p>	<p>Reports Assessed practicals In class tests Exams</p>	<p>Level 6 CORN310: Honours Project CORN314: Conservation Project Management</p>
<p>By the end of this level of this programme the students will be able to demonstrate a knowledge of a range of communication techniques and methodologies relevant to zoology and conservation, including data analysis and the use of statistics. Threshold standard:</p> <ul style="list-style-type: none"> Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study 	<p>Primary: Independent guided study Practical workshops</p> <p>Group seminars/ group work</p> <p>Secondary/Supplementary: Research seminars</p> <p>Additional lecture information available on VLE- Moodle.</p>	<p>A1, A2, A5</p>	<p>LO2, LO3</p>	<p>Essays Management plans Reports Poster/ presentations</p>	<p>Level 6 CORN310: Honours Project CORN314: Conservation Project Management</p>

<p>An exposition for embedding Knowledge and Understanding through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated a given factual and/or conceptual knowledge base with emphasis on the nature of the field of study and appropriate terminology and can demonstrate awareness of ethical issues associated with the subject.</p>					
<p>Cognitive and Intellectual Skills: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>By the end of this level of this programme the students will be able to demonstrate an appreciation of the complexity and diversity of life processes through the study of organisms, their molecular, cellular and physiological processes, their genetics and evolution, and the interrelationships between them and their environment.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Describe the structure, diversity and reproduction of the organisms studied • Describe basic organism structure and diversity • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits it for its environment show knowledge of the basic genetic principles relating to, and evolution of, the organisms studied • Describe the place of the organisms studied in the living world. • Appreciate the importance of the 'behaviour' of the organisms studied. 	<p>Primary: Lectures Independent guided study Practical workshops Group seminars/group work</p> <p>Secondary/Supplementary: Research seminars Additional lecture information available on VLE- Moodle.</p>	<p>A1, A4, A5</p>	<p>LO4, LO5, LO6</p>	<p>Essays Management plans Reports Poster/ presentations</p>	<p>ALL CORE MODULES</p>

<ul style="list-style-type: none"> • Demonstrate knowledge of biogeochemical cycles and pathways • Describe and exemplify nutrient and energy flow through individuals, populations and communities • Describe and exemplify patterns of distribution of organisms in relation to biotic and abiotic factors • Demonstrate knowledge of population processes, dynamics and interactions, and associated theoretical models • Demonstrate knowledge of community structure, development, biodiversity, and associated theoretical models • Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation 					
<p>By the end of this level of this programme the students will be able to demonstrate the ability to read and use appropriate literature with a full and critical understanding, while addressing such questions as content, context, aims, objectives, quality of information, and its interpretation and application.</p> <p>Threshold standard:</p> <ul style="list-style-type: none"> • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study. 	<p>Primary: Lectures Independent guided study Practical workshops Group seminars</p> <p>Secondary/Supplementary: Additional information and tasks available on VLE-Moodle</p>	<p>A1, A2, A4, A5</p>	<p>LO2, LO3, LO6</p>	<p>Literature reviews Essay Reports Presentations.</p>	<p>Level 6 CORN306: Applications of Zoology CORN310: Honours Project</p>
<p>By the end of this level of this programme the students will be able to demonstrate the ability</p>	<p>Primary: Independent guided study Practical workshops</p>	<p>A1, A2, A4, A5</p>	<p>LO2, LO3, LO6</p>	<p>Assessed practicals In class tests</p>	<p>Level 6 CORN306: Applications of Zoology</p>

<p>to think independently, set tasks and solve problems. Threshold standard:</p> <ul style="list-style-type: none"> Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses 	<p>Secondary/Supplementary: Additional information and tasks available on VLE-Moodle</p>			<p>Exams Project report and presentations</p>	<p>CORN310: Honours Project</p>
<p>By the end of this level of this programme the students will be able to demonstrate, analyse, synthesise and summarise information critically, including published research or reports. Threshold standard:</p> <ul style="list-style-type: none"> Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study 	<p>Primary: Lectures Independent guided study Practical workshops Group seminars Secondary/Supplementary: Additional information and tasks available on VLE-Moodle</p>	<p>A1, A2, A4, A5</p>	<p>LO2, LO3, LO6</p>	<p>Literature reviews Essays Reports Presentations</p>	<p>Level 6 CORN306: Applications of Zoology CORN310: Honours Project</p>
<p>By the end of this level of this programme the students will be able to demonstrate obtain and integrate several lines of subject-specific evidence to formulate and test hypotheses. Threshold standard:</p> <ul style="list-style-type: none"> Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident 	<p>Primary: Lectures Independent guided study Practical workshops Group seminars Secondary/Supplementary: Additional information and tasks available on VLE-Moodle</p>	<p>A1, A2, A4, A5</p>	<p>LO1, LO2, LO3, LO5, LO6</p>	<p>Reports Presentations Practical workshops Assessed practicals</p>	<p>Level 6 CORN310: Honours Project CORN306: Applications of Zoology CORN314: Conservation Project Management</p>
<p>By the end of this level of this programme the students will be able to demonstrate recognise the moral and ethical issues of investigations and appreciate the need for ethical standards and professional codes of conduct. Threshold standard:</p>	<p>Primary: Lectures Independent guided study Practical workshops Secondary/Supplementary:</p>	<p>A1, A3, A5</p>	<p>LO1, LO2</p>	<p>Debate Reports Presentations</p>	<p>Level 6 CORN310: Honours Project CORN306: Applications of Zoology</p>

<ul style="list-style-type: none"> Have some understanding of ethical issues and the impact on society of advances in the biosciences 	Visits to collections and such as Natural History Museum, Paignton Zoo, Dartmoor Zoo				CORN314: Conservation Project Management
<p>An exposition for embedding Cognitive and Intellectual Skills through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated the ability to analyse with guidance given classifications/guidance, can collect and categorise ideas and information in a predictable and standard format, can evaluate the reliability of data using defined techniques and/or tutor guidance and can apply given tools/methods accurately and carefully to a well-defined problem and begin to appreciate the complexity of the issues.</p>					
<p>Key Transferable Skills: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>By the end of this level of this programme the students will be able to communicate about their subject appropriately to a variety of audiences using a range of formats and approaches, using appropriate scientific language.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study Recognise and respect the views and opinions of other team members including negotiating skills Evaluate performance as an individual and a team member; evaluate the performance of others 	<p>Primary: Lectures Seminars Guided independent study Workshops</p> <p>Secondary/Supplementary: Guided practical and laboratory experience Guest lectures and visits Attendance at Cornwall College Newquay Research and Scholarly day Work placement</p>	A2, A3, A5	LO1, LO7	Posters Presentations and digital displays Personal evaluation Viva voce Management plan	ALL CORE MODULES
<p>An exposition for embedding Key Transferable Skills through Teaching & Learning and Assessment at this level of the programme: The learner can work effectively with others as members of a group and meet obligations to others; they can work within an appropriate ethos and can access and use a range of learning resources; they can evaluate their own strengths and weaknesses within criteria largely set by others; they can manage information, collect appropriate data from a range of sources and undertake simple research tasks with external guidance; they can take responsibility for</p>					

their own learning with appropriate support; they can communicate effectively and report practical procedures in a clear and concise manner; they can apply given tools / methods accurately and carefully to a well-defined problem and appreciate the complexity of the issues in the discipline.					
<p>Employment Related Skills: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p> <p>By the end of this level of this programme the students will be able to demonstrate the skills necessary for self-managed and lifelong learning (e.g. working independently, time management, organisational, enterprise and knowledge transfer skills)</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident • Have developed basic strategies to enable them to update their knowledge of the biosciences • Develop an adaptable, flexible and effective approach to study and work 	<p>Primary: Self-directed voluntary work Compulsory work experience Independent guided workshops</p> <p>Secondary/Supplementary: Guest seminars and lectures Study groups and supplementary group tasks/ research activities</p>	<p>A1, A2, A3, A4, A5</p>	<p>LO2, LO3, LO6, LO7</p>	<p>Poster presentations Reflective summary Personal evaluations</p>	<p>Level 6 CORN314: Conservation Project Management</p>
<p>An exposition for embedding Employment Related Skills through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated an understanding of organisational and work based practices; they have out theory in to practice by applying and developing discipline relates skills, knowledge and understanding.</p>					
<p>Practical Skills: For this bachelor level programme the following has been informed by the QAA Subject Benchmark(s): Bioscience (2007)</p>					

<p>By the end of this level of this programme the students will be able to demonstrate the ability to design, plan, conduct and report on investigations, which may involve primary or secondary data (e.g. from a survey database). These data may be obtained through individual or group projects.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate) • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses 	<p>Primary: Lectures Independent guided study Practical workshops Research tutorials</p> <p>Secondary/Supplementary: Visits to Electron Microscope and MBA Guest workshops run by ecological consultants and specialists Additional lecture information available on VLE- moodle</p>	<p>A1, A2, A4, A5</p>	<p>LO3, LO5, LO6</p>	<p>Reports Presentations Assessed practicals In class tests Exams</p>	<p>Level 6 CORN310: Honours Project CORN314: Conservation Project Management</p>
<p>By the end of this level of this programme the students will be able to demonstrate the ability to design, plan, conduct and report on investigations, which may involve primary or secondary data (e.g. from a survey database). These data may be obtained through individual or group projects.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Be able to record data accurately, and to carry out basic manipulation of data 	<p>Primary: Lectures Independent guided study Practical workshops Research tutorials</p> <p>Secondary/Supplementary: Visits to Electron Microscope, MBA</p>	<p>A1, A2, A4, A5</p>	<p>LO3, LO5, LO6</p>	<p>Reports, presentations, assessed practicals, in class tests, exams</p>	<p>Level 6 CORN310: Honours project CORN314: Conservation Project Management</p>

<p>(including qualitative data and some statistical analysis, when appropriate).</p> <ul style="list-style-type: none"> • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident. • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses. 	<p>Guest workshops run by ecological consultants and specialists. Additional lecture information available on VLE- Moodle</p>				
<p>By the end of this level of this programme the students will be able to undertake field and/or laboratory investigations of living systems in a responsible, safe and ethical manner. For example, students must pay due attention to risk assessment, relevant health and safety regulations, issues relating to animal welfare and procedures for obtaining informed consent. They should show sensitivity to the impact of investigations on the environment, on the organisms or subjects under investigation, and on other stakeholders.</p> <p>A threshold pass:</p> <ul style="list-style-type: none"> • Appreciate the interactions of organisms with each other and the environment • Have some understanding of ethical issues and the impact on society of advances in the biosciences • Have developed basic strategies to enable them to update their knowledge of the biosciences. 	<p>Primary: Lectures Independent guided study Practical workshops Research tutorials</p> <p>Secondary/Supplementary: Additional lecture information available on VLE- Moodle. Information through Home Office, RSPCA, ethical review process</p>	<p>A1, A3, A4, A5</p>	<p>LO2, LO3, LO5, LO6</p>	<p>Reports, presentations, assessed practicals, in class tests, exams</p>	<p>Level 6 CORN310: Honours Project CORN314: Conservation Project Management</p>

An exposition for embedding Practical Skills through Teaching & Learning and Assessment at this level of the programme:

Learners will have demonstrated an ability to apply practical skills developed within the course to a wide variety of industry related scenarios and will be required to complete a range of practical based skills assessments throughout this unit.

PS14. Work Based/ Related Learning

WBL is an essential element of Foundation Degrees and therefore needs to be detailed here. However, for all types of HE Programmes there should be an element of employability focus through, at least, Work Related Learning, and therefore the following is applicable for all:

BSc (Hons) Applied Zoology and Conservation					
WBL/WRL Activity:	Logistics	Prog Aim	Prog Intended LO	Range of Assessments	Related Core Module(s)
Students to complete mandatory 40hrs, recommended 100hrs work experience in a relevant placement	Students to find individual placement with the support of work experience coordinator at the Newquay campus	A2, A3, A6	LO3, LO4, LO7	Assessed through presentation of poster/digital optical display at work experience exhibition during year 2.	CORN275: Zoological Conservation in Practice
Identification Skills -Students will need to gain experience using taxonomic keys, observing and recording specific <i>g taxa in situ</i>	General bird surveys, coastal sea bird and wading bird surveys - Hayle estuary, Gannel estuary	A2, A4	LO3, LO5, LO7	Assessed practical and analysis of recorded data demonstrated through a report and management plan	ZOO6: Fieldwork CORN275: Zoological Conservation in Practice
Collaboration with local action groups	Participate in monitoring, clearance and management of invasive species in the county as part of SINNG	A1, A2, A3, A4 A5, A6	LO2, LO3, LO5, LO7	Practical surveys and analysis of recorded data demonstrated through a report/poster	CORN275: Zoological Conservation in Practice CORN274: Biosecurity and Invasive Species
Guest lecturers from practicing conservation employers	Sue Sayer - Cornwall Seal Group, Adrian Spalding - Spalding Consultants, Matt Slater - CWT and Panache	A1, A2, A3	LO1, LO4	Referenced as part of the evaluation of employment in the conservation sector	CORN275: Zoological Conservation in Practice
Relevant Visits	Comparative dissections at Dartmoor Zoo, Looe-Wild Futures (Monkey Sanctuary)-observing primates in rehabilitation, Paignton Zoo-Exotic Animal Nutrition	A2, A3, A4	LO2, LO4, LO5	Exam and report/short communication relating animal form to function.	CORN272: Vertebrate Zoology
<p>An exposition to explain this map: Whilst the entire programme is intended to develop the practical and employability skills required of an employee within aquaculture or aquatic management the focus associated with an extended period of work experience has a proven track record of ensuring that the successful graduate emerges with these essential skills and establishes a proven track record of employability that is often in demand from employers.</p>					