



Programme Specification

Wildlife Ecology and Conservation Science [Zoo]

Version: 2023-24, v1.1, Validated

Contents

Programme Specification.....	1
Section 1: Key Programme Details.....	2
Part A: Programme Information	2
Section 2: Programme Overview, Aims and Learning Outcomes	2
Part A: Programme Overview, Aims and Learning Outcomes	3
Part B: Programme Structure.....	14
Part C: Higher Education Achievement Record (HEAR) Synopsis	21
Part D: External Reference Points and Benchmarks	21
Part E: Regulations	25

Section 1: Key Programme Details

Part A: Programme Information

Programme title: Wildlife Ecology and Conservation Science [Zoo]

Highest award: BSc (Hons) Wildlife Ecology and Conservation Science

Interim award: BSc Wildlife Ecology and Conservation Science

Interim award: DipHE Wildlife Ecology and Conservation Science

Interim award: CertHE Wildlife Ecology and Conservation Science

Awarding institution: UWE Bristol

Affiliated institutions: Bristol Zoological Society

Teaching institutions: UWE Bristol

Study abroad: Yes

Year abroad: No

Sandwich year: Yes

Credit recognition: No

School responsible for the programme: CHSS School of Applied Sciences,
College of Health, Science & Society

Professional, statutory or regulatory bodies: Not applicable

Modes of delivery: Full-time, Part-time, Sandwich

Entry requirements: For the current entry requirements see the UWE public website.

For implementation from: 01 September 2024

Programme code: C15B00

Section 2: Programme Overview, Aims and Learning Outcomes

Part A: Programme Overview, Aims and Learning Outcomes

Overview: Conservation Science is a new, multi-disciplinary science that has evolved in response to the national and global issues confronting biological diversity and the impact on wildlife. The BSc (Hons) Wildlife Ecology and Conservation Science programme is a three year full-time or a four year sandwich degree designed to provide graduates with an in-depth understanding of the scientific study of wildlife, the diversity of living organisms and their habitats, and the practical steps that can be taken for effective conservation. It provides an opportunity for students to explore the theory and practice related to wildlife conservation, and to develop both subject-specific and important generic graduate skills, such as practical and analytical skills, work experience, project management, use of technology and communication media. The programme aims to develop in students an in-depth understanding the relationship between wildlife and society, the impacts of human activities on the living world, and an appreciation of the practical steps that can be taken to ameliorate biodiversity decline. It takes a multi-disciplinary approach, considering not only the science underpinning the diversity and ecology of wildlife, their habitats and contemporary scientific approaches to conservation, but also legislative, socio-economic factors and the role of communication. This approach allows students to make an informed evaluation of possible solutions to biodiversity loss and propose conservation action plans.

The design of the programme enables the student to:

Explore the complexity and diversity of the living world, its evolution and function at an organismal, population, community and ecosystem scale, and its relationship with the physical environment.

Examine how plants and animals interact with each other and their environment.

Understand the impact of human activities on the living world and the resulting threat to global biodiversity.

Evaluate a range of possible solutions to biodiversity loss, not only from a biological perspective, but also taking into account legislative and socio-economic factors and the role of communication.

Develop subject-specific and generic skills necessary for employment, such as underpinning knowledge, practical and analytical skills, work experience, project management, use of technology and communication media.

This programme has been developed in consultation with employers so provides graduates with the knowledge and skills necessary to work effectively in the field of national and international wildlife conservation. The programme aims to develop in students an in-depth understanding of the scientific study of wildlife, the diversity of living organisms and their habitats, and the practical steps that can be taken for effective conservation. The programme includes work experience and provides opportunities for students to develop generic skills necessary for employment, such as practical and analytical skills, project management, use of technology and communication media.

Features of the programme: The Wildlife Ecology and Conservation Science programme has been developed in consultation with a range of stake holders and has the following key features:

Part-taught and delivered at Bristol Zoo Gardens

Designed to support 4 career pathways in addition to being a science graduate (Consultancy - Enterprise; Contemporary techniques; Media and film; International wildlife conservation)

Familiarisation with both local and global partners/employers

Built in 'organised' voluntary work with local partners

Built in field work, identification skills, temperate and tropical field experience

Attractive bespoke modules on Wildlife and Media; Primate Ecology and Conservation.

Local to global scientific study of wildlife to attract international students.

In addition, the programme allows students to gather a range of extra take-away qualifications or skills for example:

The European Computer Driving Licence certificate Level 1 and 2 will be obtained on successful completion of the skills modules (Field Skills, Environmental and Field Techniques).

Students are required to hold a valid diving qualification prior to the tropical expedition. For those students with a previous qualification a refresher course is provided. However, for those students new to diving a diving training course is arranged and students will gain the internationally recognised PADI (Open water) SCUBA certificate.

The study and use of GIS and other remote sensing techniques at levels 2 and 3 (e.g. in Conservation in practice, Remote Sensing and GIS) allows students to become proficient at GIS, a highly valued graduate skill.

The study and use of office software and network data bases in modules such as Contemporary Conservation Science allows students to become proficient in these key IT skills.

The use of technology in assessments and the built-in communication skills in modules such as Conservation in Practice, Wildlife, Film and Media, Contemporary Conservation Science allows students to become competent with new technologies/media (e.g. blogs, Twitter, WebPages, ECommunications) and competent at using media e.g. press releases, film-making, all of which are highly desired contemporary skills.

Educational Aims: The specific aims of the programme are to:

Provide the educational and resource environment which will enable students with a background in biology to develop:

- an understanding of the living world from a multi-disciplinary and interdisciplinary perspective;
- the field, laboratory, investigative, problem-solving, technical and communication skills necessary to undertake independent investigations and analyses of wildlife conservation problems, and the presentational skills necessary to communicate their findings to audiences with a variety of backgrounds;
- the skills needed by a literate, numerate, technologically agile student capable of independent learning;
- the generic skills needed by a student for employment.

Create a friendly, supportive and contemporary atmosphere that will enable individual students to use the whole learning experience at UWE to create a graduate foundation, on which they can develop their future careers and on-going social and educational development as independent lifelong learners.

Provide a curriculum that is enhanced by the strong relationship between teaching, research, and professional practice and informed by employers.

Programme Learning Outcomes:

On successful completion of this programme graduates will achieve the following learning outcomes.

Knowledge and Understanding

- A1. The structure and functioning of the natural world at an organism, population, community and ecosystem levels.

- A2. The processes which shape the natural world at different temporal and spatial scales including the influence of human activities.
- A3. The relationship between plants, animals and micro-organisms, and how they interact with their environment.
- A4. The terminology, nomenclature and classification systems relevant to wildlife conservation.
- A5. The threats to global biodiversity, current and contemporary approaches to wildlife conservation.
- A6. Methods of acquiring, interpreting and analysing information and data with a critical understanding of the appropriate contexts for their use.
- A7. Awareness of the contribution of their subject to the understanding of biodiversity, its conservation and sustainable management.
- A8. The importance of a multi-disciplinary and interdisciplinary approach to the study of wildlife conservation.
- A9. The importance of subject specific and generic skills for employment in wildlife conservation.

Intellectual Skills

- B1. Recognising and using subject-specific theories, paradigms, concept and principles.
- B2. Analysing, synthesising and summarising information critically, including prior research.
- B3. Collecting and integrating several lines of evidence to formulate and test hypotheses.
- B4. Applying knowledge and understanding to address familiar and unfamiliar problems.
- B5. Synthesising knowledge as an independent learner and a manager of self..
- B6. Recognising the moral and ethical issues of investigation and appreciating the need for professional codes of conduct.

Subject/Professional Practice Skills

- C1. Plan, conduct, and report on scientific investigations, including the use of secondary data.

- C2. Collect, record and analyse data using appropriate techniques in the field and laboratory.
- C3. Undertake field and laboratory investigations in a responsible and safe manner, paying due attention to risk assessment, rights of access, relevant health and safety regulations, and to display sensitivity to the impact of investigations on the environment and stakeholders.
- C4. Identify in the field and/or laboratory a range of organisms to family level, and for a specific group of organisms, to species level.
- C5. Undertake field surveys and develop biodiversity management plans.
- C6. Use appropriate technology for the analysis, mapping and interpretation of data.
- C7. Undertake a research project including project design and management and communicate findings using appropriate communication media.
- C8. Reference work in an appropriate manner and compare findings to published literature.

Transferable Skills and other attributes

- D1. Receive and respond to a variety of sources of information (eg. textual, numerical, verbal, graphical and electronic).
- D2. Communicate appropriately to a variety of audiences using a range of formats, approaches and contemporary technologies.
- D3. Appreciate issues of sample selection, accuracy, calibration, precision, replicability and uncertainty during collection, recording and analysis of data in the field and laboratory.
- D4. Prepare, process, interpret and present data, using appropriate qualitative and quantitative techniques and packages.
- D5. Solve numerical problems using computer and non-computer based techniques.
- D6. Use the internet and other electronic sources critically as a means of communication and a source of information.
- D7. Recognise and respect the views and opinions of others.
- D8. Evaluate performance as an individual and a team member.

- D9. Develop the skills necessary for a self-managed active learner and life-long learning (eg working independently, time management and organisation skills).
- D10. Appreciate the skills for employment, respond to feedback and work towards targets for personal, academic and career development.

Assessment strategy: A range of assessment methods are employed to monitor student attainment of the full range of Learning Outcomes. Assessment incorporates the Department's assessment strategy and The QAA Code of Practice on Assessment of Students. The principles, procedures and processes of assessment for each module are described in the module booklet, which is provided to each student and available online at the start of the module. Further, these assessments are summarised in the Assessment Calendar provided via the UWE Portal, which also facilitates the appropriate scheduling of assessment loading. The Final Year optional modules (15 credit) have semester based delivery. This allows assessments to be spread across both semesters for even loading.

Effective learning is achieved by employing a range of assessment approaches across the suite of modules that recognise differential approaches to learning. These include opportunities for work-based learning, placements and field work, and "real-world" assignments, delivered by university staff, through our collaborations with Bristol Zoo, and in partnership with a range of other conservation organisations. The development of a flexible, inclusive and accessible curriculum ensures a high quality learning experience for all students. The programme incorporates a range of innovative and novel assessments, many utilizing new technologies.

As shown above, Technology Enhanced Learning (TEL) is integral to the subject matter within this programme (see TEL map). Many taught topics are technology rich and TEL is also used to supplement learning and to help student learn through assessment. The mapping demonstrates a range of modern technologies across the programme, but also shows repetition, of technologies, thus re-enforcement of skills. This is particularly important between levels as it provides opportunities for students to become proficient with these media in key areas. The need for proficiency and an emphasis on technology aided skills was identified by employers (e.g. GIS, new

media, blogs, web pages, data bases, press releases) and this feedback was used to inform the assessment strategy.

The Assessment Strategy has been designed to support and enhance the development of both subject-based and generic key skills and allow students to realise their true potential. Many assessments focus on the development of subject specific skills that enhance students' employability, for example field identification skills, writing grant applications and habitat management plans. Hence the focus is on assessments for learning.

The nature of feedback on student work is varied, and relates to the nature of the work undertaken. Methods of feedback include: detailed comments on scripts; oral feedback; generic or assignment-specific feedback forms; peer assessment; and model answers. As well as supplying feedback on summative assessment, the teaching team also employ feed-forward strategies, both on summative work (for example detailed commentaries provided on drafts for the final year project) and formative assessment, such as in-class tests (using clickers), on-line quizzes, model answers for past exam questions, posters and presentations.

Assessments are designed to achieve the learning outcomes for each module and this is described on the module specification.

Student support: The Wildlife Ecology and Conservation Science programme is a multi-disciplinary degree which has been developed in consultation with employers so provides graduates with the knowledge and skills necessary to work effectively in the field of national and international wildlife conservation. The modules allow students to develop an in-depth understanding of the scientific study of wildlife, the diversity of living organisms and their habitats, and the practical steps that can be taken for effective conservation. The programme includes work experience, offers a placement year, and provides opportunities for students to develop generic skills necessary for employment, such as practical and analytical skills, project management, use of technology and communication media. The programme is part-delivered at Bristol Zoo Gardens which allows the taught material to be delivered in

context and further links to the world of work.

Transition to HE and student support

BSc Hons Wildlife Ecology and Conservation Science is managed as part of a suite of programmes within the Biological and Environmental Sciences and Science Communication Subject Group. Year handbooks are provided at each level providing information on the Faculty, the University, its regulations and procedures. Detailed information is distributed in guides for each module. At the start of the programme, students undertake a comprehensive induction programme and are introduced to university regulations, aims of the programme, laboratory working, support systems (e.g. Drop-ins, PAL) and their personal tutor. Students are allocated a personal tutor and become part of a tutor group (typically less than 15 tutees). Adjusting to university life is challenging for Level One students and to help with this transition students attend a short residential field course early in Semester one. Students are supported during their time at UWE by a personal tutor, student advisors and module leaders. Guidance on year issues is overseen by the Programme Manager, who is supported by the Teaching Team and AHoD. A dedicated HE Co-ordinator at Bristol Zoo oversees delivery of teaching on site at Bristol Zoo. Issues relating to groups of students are dealt with through the Student Rep / Staff Forum (SRSF) that includes student representatives, who also meet with the Programme Manager on a regular basis. For the sandwich year, students are allocated a placement tutor who maintains contact, plans a visit where possible and provides support and liaises with work supervisors. For all students, access to academic staff and the student advisors is via e-mail or by personal access, with most staff offering an office-hours policy facilitating the booking of appointments. The central University counselling and support services also provide assistance and guidance for students.

Issues relating to disability are dealt with by the Programme Manager in consultation with UWE's Disability Advice Centre and special arrangements for assessments can be made where necessary based on individual circumstances. The Faculty has many years of experience in organising and running fieldtrips to diverse locations. All students are provided with a detailed itinerary well in advance of any fieldwork, and dietary requirements, medical conditions and other potential problems are collected

in confidence. Whilst in the field a high staff student ratio is maintained. Where potential problems arise, alternative activities/ sites are used which provide disabled students with an equivalent learning experience. In all cases staff work closely with students to accommodate their individual needs, and the decision to participate in an alternative activity lies entirely with the student. This approach takes into account the individual needs of students with a wide range of disabilities, and provides an experience which is as inclusive as possible.

Teaching and Learning facilities

The Bolland library provides an extensive range of literature that supports the programme. Additional material is held in the Field Studies Resource Room and in the library at Bristol Zoo. Students have 24-hour access to computers, and IT support services are available within the University's Computing Helpdesk. The University's Virtual Learning Environment, hosted by Blackboard has been developed to enhance the student's learning experience and provide comprehensive support on a module-by-module basis. Support includes, access to teaching materials, links to relevant online resources and background reading, facilities for interaction and coordination during group work (e.g. blogs, wiki's) and communication between tutors and students. The Faculty has a well-equipped range of general and specialist laboratories, a dedicated field laboratory, large glasshouse used for teaching and project work, dedicated project laboratory a wide range of specialist scientific equipment that is available for use by the students at appropriate stages in their study programme.

Teaching facilities for students when studying at Bristol zoo include: Education Centre including 4 teaching rooms, laboratory, computer room; teaching Portakabin including one 25 seat teaching room, computer room, library; Pavillion conference suite including 119 seat lecture theatre; access to the zoo's extensive collection of animals at the Clifton Zoo site and 'Wild Place' site North Bristol.

Preparation for the world of work

An aim of this programme is to produce graduates that are fit for work. To achieve this

objective student are introduced to the world of work at Level One. This occurs within the modules 'Field Skills' and 'Wildlife and Society'. Here student are introduced to research being carried out by staff at the university, meet a range of local conservation employers, investigate employment opportunities in tutor groups and undertake organised work experience during visits to local employers such as Bristol Zoo. At Level 2 students undertake organised mini-placements (within 'Conservation in Practice') with local providers to gain work experience. The Placement Year will build up students' work experience skills and this occurs between Level 2 and Final Year. Scientific and generic careers events are organised throughout the year for student at all levels and career advice and C.V. preparation is a key aspect of tutor group session. Enterprise, social enterprise and consultancy are all key topics delivered in the compulsory Final Year module 'Contemporary Conservation Science' and are part delivered by the Careers Service.

Field work is of fundamental importance to the development of employability skills and understanding in wildlife conservation, and occurs across a range of modules at all levels, including half-day, whole day, and residential visits. In particular, residential field trips take place at Level 1 (compulsory), Level 2 (compulsory) and Final Year (optional modules). The costs associated with compulsory field trips are generally met by the Faculty, however, optional trips may incur an additional cost. At Final Year students undertake an independent research project. This is supported by compulsory modules at Levels 1 and 2 during which students develop the skills to project plan, self manage, collect data, analyse and interpret data and write scientific reports.

In addition to the practical work experience opportunities throughout this programme, technology is used to enhance teaching, learning and employability. Wildlife scientists are often required to communicate and disseminate their findings through a variety of modern media, to a range of audiences. A number of the technologies incorporated within this programme link directly to feedback from employers on relevant graduate skills (e.g. GIS, data bases, webpages, blogs, new media).

Teaching and Learning, Technology Enhanced Learning (TEL)

In order to support students during their transition to HE and to help students become independent learners, taught sessions at Level One are a mixture of interactive lectures, tutorials, workshops, laboratory, field and computer practical's. During this year students are taught the skills necessary to engage with appropriate technologies to allow a gradual move towards facilitated learning at Level 2 and Final Year. The taught sessions at UWE utilise TEL to support a pedagogy of Inductive Learning where the students engage in facilitated activities such as debates, problem based learning, group working, research etc. Integral to this programme is the use of subject based as well as generic use of technologies. For instance, data analysis and modelling, mapping (GIS), wildlife film-making, communication for conservation, are subject areas reliant on a range of contemporary technologies. In addition modern technologies are incorporated as vehicles of learning (e.g. blogs, web pages, data bases) and as vehicles for learning through assessment (e.g. online portfolios, online tests, wikis, press releases etc.). See Documents for a map showing the use of TEL in subject knowledge, subject delivery and subject assessment.

Part B: Programme Structure

Year 1

Full time and Sandwich students must take 120 credits from the modules in Year 1.

Part-time students must take 60 credits from the modules in Year 1.

Year 1 Compulsory Modules (Part-time)

Part-time students must take 60 credits from the modules in Compulsory Modules (Part-time).

Module Code	Module Title	Credit
USSJFB-30-1	The Earth 2023-24	30
USSK5B-30-1	Field Skills 2023-24	30

Year 1 Compulsory Modules (Full time and Sandwich)

Full time and Sandwich students must take 120 credits from the modules in Compulsory Modules (Full time and Sandwich).

Module Code	Module Title	Credit
USSK5B-30-1	Field Skills 2023-24	30
USSK5C-30-1	Life on Earth 2023-24	30
USSJFB-30-1	The Earth 2023-24	30
USSK5D-30-1	Wildlife and Society 2023-24	30

Year 2

Full time and Sandwich students must take 120 credits from the modules in Year 2.

Part-time students must take 60 credits from the modules in Year 2.

Year 2 Compulsory Modules (Part-time)

Part-time students must take 60 credits from the modules in Compulsory Modules (Part-time).

Module Code	Module Title	Credit
USSK5D-30-1	Wildlife and Society 2024-25	30
USSK5C-30-1	Life on Earth 2024-25	30

Year 2 Compulsory Modules (Full time and Sandwich)

Full time and Sandwich students must take 90 credits from the modules in Compulsory Modules (Full time and Sandwich).

Module Code	Module Title	Credit
USSK5E-30-2	Conservation in Practice 2024-25	30
USSK5F-30-2	Ecology and Ecosystem Protection 2024-25	30
USSK5G-30-2	Environmental and Field Techniques 2024-25	30

Year 2 Optional Modules (Full time and Sandwich)

Full time and Sandwich students must take 30 credits from the modules in Optional Modules (Full time and Sandwich).

Module Code	Module Title	Credit
USSJQD-15-2	Plant Growth and Survival 2024-25	15
USSKN7-15-2	The Microbial World 2024-25	15
USSJQC-15-2	Wildlife Ecology 2024-25	15

Year 3

Full time students must take 120 credits from the modules in Year 3.

Sandwich students spend a year out working for an organisation, in an appropriate placement to gain relevant work experience and must take 15 credits from the modules in Year 3.

Part-time students must take 60 credits from the modules in Year 3.

Year 3 Compulsory Modules (Part-time)

Part-time students must take 30 credits from the modules in Compulsory Modules (Part-time).

Module Code	Module Title	Credit
USSK5G-30-2	Environmental and Field Techniques 2025-26	30
USSK5F-30-2	Ecology and Ecosystem Protection 2025-26	30

Year 3 Compulsory Modules (Full time)

Full time students must take 60 credits from the modules in Compulsory Modules (Full time).

Module Code	Module Title	Credit
USSK5J-30-3	Contemporary Conservation Science 2025-26	30
USSKBC-30-3	Research Dissertation Project 2025-26	30

Year 3 Compulsory Modules (Sandwich)

Sandwich students must take 15 credits from the modules in Compulsory Modules (Sandwich).

Module Code	Module Title	Credit
USSK57-15-3	Professional Practice in Applied Sciences 2025-26	15

Year 3 Optional Modules (Full time)

Full time students must select 60 credits from the modules in Optional Modules (Full time).

Module Code	Module Title	Credit
USSJKU-15-3	Environmental and Ecological Consultancy 2025-26	15
USSKN9-15-3	Environmental Microbiology 2025-26	15
USSKN6-15-3	Global Forest Systems 2025-26	15
USSK55-15-3	Marine Ecosystems 2025-26	15
USSK56-15-3	Primate Ecology and Conservation 2025-26	15
USSK57-15-3	Professional Practice in Applied Sciences 2025-26	15
USSK58-15-3	Remote Sensing and Geographical Information Systems (GIS) 2025-26	15
USSKCE-15-3	Science Communication 2025-26	15
USSKNB-15-3	Sustainable Food Production 2025-26	15
USSK59-15-3	Tropical Expedition 2025-26	15
USSK5A-15-3	Wildlife, Film and Media 2025-26	15

Year 4

Sandwich students must take 105 credits from the modules in Year 4.

Part-time students must take 60 credits from the modules in Year 4.

Year 4 Compulsory Modules (Part Time)

Part-time students must take 30 credits from the modules in Compulsory Modules (Part-time).

Module Code	Module Title	Credit
USSK5E-30-2	Conservation in Practice 2026-27	30

Year 4 Optional Modules (Part-time)

Part-time students must take 30 credits from the modules in Optional Modules (Part-time).

Module Code	Module Title	Credit
USSJQC-15-2	Wildlife Ecology 2026-27	15
USSJQD-15-2	Plant Growth and Survival 2026-27	15
USSKN7-15-2	The Microbial World 2026-27	15

Year 4 Compulsory Modules (Sandwich)

Sandwich students must take 60 credits from the modules in Compulsory Modules (Sandwich).

Module Code	Module Title	Credit
USSK5J-30-3	Contemporary Conservation Science 2026-27	30
USSKBC-30-3	Research Dissertation Project 2026-27	30

Year 4 Optional Modules (Sandwich)

Sandwich students must select 45 credits from the modules in Optional Modules (Sandwich).

Module Code	Module Title	Credit
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USSJKU-15-3	Environmental and Ecological Consultancy 2026-27	15
USSKN9-15-3	Environmental Microbiology 2026-27	15
USSKN6-15-3	Global Forest Systems 2026-27	15
USSK55-15-3	Marine Ecosystems 2026-27	15
USSK56-15-3	Primate Ecology and Conservation 2026-27	15
USSK58-15-3	Remote Sensing and Geographical Information Systems (GIS) 2026-27	15
USSKCE-15-3	Science Communication 2026-27	15
USSKNB-15-3	Sustainable Food Production 2026-27	15
USSK59-15-3	Expedition to a Biodiversity Hotspot 2026-27	15
USSK5A-15-3	Wildlife, Film and Media 2026-27	15

Year 5

Part-time students must take 60 credits from the modules in Year 5.

Year 5 Compulsory Modules (Part-time)

Part-time students must take 30 credits from the modules in Compulsory Modules (Part-time).

Module Code	Module Title	Credit
USSK5J-30-3	Contemporary Conservation Science 2027-28	30

Year 5 Optional Modules (Part-time)

Part-time students must take 30 credits from the modules in Optional Modules (Part-time).

Module Code	Module Title	Credit
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USSJKU-15-3	Environmental and Ecological Consultancy 2027-28	15
USSKN9-15-3	Environmental Microbiology 2027-28	15
USSK55-15-3	Marine Ecosystems 2027-28	15
USSKN6-15-3	Global Forest Systems 2027-28	15
USSKCE-15-3	Science Communication 2027-28	15
USSK58-15-3	Remote Sensing and Geographical Information Systems (GIS) 2027-28	15
USSKNB-15-3	Sustainable Food Production 2027-28	15
USSK59-15-3	Expedition to a Biodiversity Hotspot 2027-28	15
USSK56-15-3	Primate Ecology and Conservation 2027-28	15
USSK5A-15-3	Wildlife, Film and Media 2027-28	15

Year 6

Part-time students must take 60 credits from the modules in Year 6.

Year 6 Compulsory Modules (Part-time)

Part-time students must take 30 credits from the modules in Compulsory Modules (Part-time).

Module Code	Module Title	Credit
USSKBC-30-3	Research Dissertation Project 2028-29	30

Year 6 Optional Modules (Part-time)

Part-time students must take 30 credits from the modules in Optional Modules (Part-time).

Module Code	Module Title	Credit
USSJKU-15-3	Environmental and Ecological Consultancy 2028-29	15

USSKN6-15-3	Global Forest Systems 2028-29	15
USSK58-15-3	Remote Sensing and Geographical Information Systems (GIS) 2028-29	15
USSK55-15-3	Marine Ecosystems 2028-29	15
USSK56-15-3	Primate Ecology and Conservation 2028-29	15
USSK5A-15-3	Wildlife, Film and Media 2028-29	15
USSK59-15-3	Expedition to a Biodiversity Hotspot 2028-29	15
USSKN9-15-3	Environmental Microbiology 2028-29	15
USSKCE-15-3	Science Communication 2028-29	15
USSKNB-15-3	Sustainable Food Production 2028-29	15

Part C: Higher Education Achievement Record (HEAR) Synopsis

This programme has been developed in consultation with employers so provides graduates with the knowledge and skills necessary to work effectively in the field of national and international wildlife conservation. The programme aims to develop in students an in-depth understanding of the scientific study of wildlife, the diversity of living organisms and their habitats, and the practical steps that can be taken for effective conservation. The programme includes work experience, offers a placement year, and provides opportunities for students to develop generic skills necessary for employment, such as practical and analytical skills, project management, use of technology and communication media.

Part D: External Reference Points and Benchmarks

The Framework for Higher Education Qualifications

The learning outcomes have been developed with reference to the qualification descriptors used in the QAA Framework for Higher Education Qualifications. In

particular, the learning outcomes for the modules at Final Year are considered consistent with the QAA's descriptor for a higher education qualification at level 6: Bachelor's degree with honours. Graduates of the programme achieving an Honours classification will have developed a systematic understanding of key aspects of wildlife ecology and conservation science, some of it at the current boundaries of the academic discipline. In addition, graduates will have developed analytical techniques, problem-solving skills and communication skills that can be applied to a range of employment opportunities.

Subject Benchmark Statements

The programme maps well to the Biosciences benchmark statement and, in particular, to its subject specific and generic learning outcomes, as described in detail earlier in the Programme Specification. In addition, the following key concepts and priorities highlighted in the Biosciences benchmark statement were used to inform programme design:

All students should have at least some appreciation of...studies at a variety of levels from molecules to populations. This programme focuses primarily on the study of organisms, populations, communities and ecosystems, although fundamental biological concepts that underpin an understanding of wildlife ecology and conservation, such as physiological processes and knowledge of genetics and evolution, are covered (for example at Level 1 in Life on Earth and at Level 2 in Wildlife Ecology).

Students should develop competence in comparing the merits of alternative hypotheses and receive guidance in terms of how to construct experiments or make observations to challenge them. In all modules, students will be encouraged to explore a range of hypotheses both through their own experimentation, and through the consideration of case studies which both support and refute current paradigms. These skills are developed in the second year when students undertake a group research project in Environmental and Field Techniques. Competence is further developed and assessed to an advanced degree in the Final Year independent Research Project, in which students are expected to devise and undertake original

research and to critically compare their findings with existing knowledge and understanding in their chosen subject area.

The biosciences are essentially practical and experimental subjects. This programme places much emphasis on practical work in the broadest sense, including field and laboratory work, computer-based exercises, group and individual project work, literature-based investigations and utilizing communication technologies. In particular, many students will chose to undertake an independent research project that involves a substantial amount of practical or experimental work, although entirely desk-based studies are relevant in some areas of investigation. In addition, many of the modules contain a substantial amount of practical work, not least through the residential field trips in Field Skills, Environmental and Field Techniques, Marine Ecosystems, and the Tropical Expedition, as well as half and full-day visits undertaken in other modules.

The benchmarking Statement also provides a description of subject standards for degrees in Ecology and Environmental Biology which is a good match to both the subject areas covered and the standards achieved by students on the programme.

SEEC credit level descriptors (2010)

SEEC credit level descriptors have been used to establish the level of the programme and its modules, and to inform the learning outcomes and assessment criteria at level 4 (Cert. HE), level 5 (Dip. HE), and level 6 (BSc).

These credit levels descriptors inform the following areas:

The development of subject specific knowledge and understanding, generic cognitive and intellectual skills, key/transferable skills, and subject specific practical skills.

Teaching, learning and assessment strategies that deliver, ensure and assess the attainment of these levels.

The programme level learning outcomes that are reinforced by the modular learning

outcomes, teaching, learning and assessment strategies described in individual module specifications.

Consideration of feedback from stakeholders: schools and colleges, current students, graduates and employers:

An online questionnaire was used to survey the opinions of current students; recent graduates; alumni; and employers / members of biodiversity networks. Local schools were also contacted via the SCPS to gain further feedback from 16-18 year olds and from teachers. In addition, feedback was gained from current students on the potential distinctive features of the new programme. The data suggest that students/sixth formers prefer titles that explain what the course is about; prefer to see the term science in the title as it confers gravitas; prefer a title that sounds like it is 'doing something'; like the link to Bristol Zoo; like the link to media/film; like the link to conservation technology; like the idea of compulsory 'voluntary' work. This valuable feedback was taken into account when deciding upon the programme title (Wildlife Ecology and Conservation Science) and the content. The programme now includes modules that will be delivered at Bristol Zoo Gardens and has modules specifically on wildlife e.g. Wildlife Ecology; Primate Ecology and Conservation. The Final Year module Contemporary Conservation Science includes modern innovative approaches to conservation such as conservation genetics. An optional Final Year module Wildlife, Film and Media has been created in response to the positive feedback to this proposal.

To ensure that the programme would be fit for purpose and to gain an in-depth knowledge of the needs of employers in this field, key personnel from the Wildfowl and Wetlands Trust (Slimbridge); Somerset Wildlife Trust; Worldwide fund for Nature (WWF-UK); Bristol Zoo Gardens and Bristol City Council were interviewed. This generated invaluable feedback on the attractiveness and usefulness of the programme and highlighted all the skills that were needed to produce a skilled and employable graduate ready to work in this field. All organisations considered that the consultation was an excellent approach to programme development and were extremely helpful in providing ideas for content and offers of work experience opportunities. Common themes emerged from these meetings and so in response to

a request for proficiency in Geographical Information systems (GIS), data analysis, scientific writing, use of data bases, field based skills and communication skills there are numerous skills modules at all levels that address these requests e.g. Field Skills; Environmental and Field Techniques; Conservation in Practice; Contemporary Conservation Science; Research Project. All organisations were impressed by the idea of 'built-in' voluntary work and offered work experience opportunities.

A final consultation was held with current students once the programme structure and module content had been developed sufficiently to be articulated in some detail. Student feedback on the proposal was very positive however, they did make suggestions for module name changes and highlighted a perceived negative response to too many module titles using the term 'skills'. This was taken on board and so, for example, the Level 2 module is now called Environmental and Field Techniques which was given a positive response from students.

Part E: Regulations

Approved to University Regulations and Procedures.