PROGRAMME QUALITY HANDBOOK 2019-2020

FdSc Animal Science

Contents

1. Welcome and Introduction to FdSc Animal Science.

Welcome to the Foundation Degree in Animal Science delivered by University Centre South Devon.

University Centre South Devon is a proud partner of Plymouth University offering you the opportunity to study in state of the art facilities, located in the beautiful English Riviera.

This programme has been designed to equip you with the skills and knowledge base required to work in your chosen specialism or other graduate opportunities. It is also a platform from which you can undertake additional vocational and academic qualifications.

This Programme Quality handbook contains important information including:
The approved programme specification
Module records

Note: The information in this handbook should be read in conjunction with the current edition of:

- Your Institution & University Student Handbook which contains student support based information on issues such as finance and studying at HE
    - Available in University News & Information on Moodle.
- Plymouth University's Student Handbook
    - available at: https://www.plymouth.ac.uk/your-university/governance/student-handbook

1.1. Programme Management

Marianne Readman: Programme Coordinator Animal Science/Programme Manager BSc (Hons) Applied Animal Science

Following returning to University as a mature student, Marianne gained a BSc(Hons) in Equine Science. She has spent the majority of her nearly 20 year career as a lecturer in animal and equine science and management based in specialist land-based colleges. Marianne has worked with a variety of universities to develop, deliver and manage the HE provision in those colleges. During this time she completed a PGCE and a Post Graduate Diploma in Education.

1.2. Personal Tutor

Personal tutors are designated as a sustained and first point of reference for individual students on personal, domestic or academic matters; detailed information will be available in your teaching, learning and assessment handbooks.

Personal Tutor for 19/20: **Marianne Readman**

Further information can be found by following this link to the University personal tutoring policy.

1.3. Module Leaders

Module Leader	Module	Contact
Rachel Rayers	Principles of Animal Behaviour	rachelrayers@southdevon.ac.uk
Marianne Readman	Animal Health and Welfare	mariannereadman@southdevon.ac.uk
Rachel Rayers	Principles of Behaviour Management and Analysis	rachelrayers@southdevon.ac.uk
TBC	Applied Zoo Science	
Marianne Readman	Anatomy and Physiology Animal Nutrition	mariannereadman@southdevon.ac.uk

Dr Andrea Gaion	Specialist Research Project Marine Biology and Environmental Management	andreagaion@southdevon.ac.uk
Stuart Collier	Animal Husbandry and Handling Wildlife Management and Rehabilitation Developing Research and Practice Wild and Domestic Animal Behaviour Engaging Audiences in Science	stuartcollier@southdevon.ac.uk
Andrew Walker-Brown	Sustainable Management Foundation Bioscience	andrewwalkerbrown@southdevon.ac.uk
Matt Rossin	Ecology Behaviour and Conservation Biodiversity and Speciation	mattrossin@southdevon.ac.uk

1.4. Course Contact List

If you have questions about a module, please contact the appropriate module leader.

If you have any questions about the programme or your pastoral needs please contact your personal tutor, Marianne Readman, on mariannereadman@southdevon.ac.uk

If you have any questions about fees, funding or support from the university please contact university@southdevon.ac.uk

2. Programme Specification

On the following pages you will find the specification for your programme; this provides a detailed overview of the programme as a whole. It explains what you will learn and how you will be assessed throughout the two stages of your Foundation Degree. The Programme Learning Outcomes Map specifies the knowledge and skills you will develop at each stage of your Foundation Degree.

2.1.1. Programme Specification

Awarding Institution: University of Plymouth
Teaching Institution: South Devon College
Accrediting Body: N/A
Final Award: FdSc Animal Science
Intermediate Awards: Certificate of Higher Education (CertHE)
Programme Title: FdSc Animal Science

UCAS Code: D300
JACS Code: D300
Benchmarks: Foundation Degree Qualification Benchmark informed by Quality Assurance Agency for Higher Education
Subject benchmarks are congruent with the Foundation Degree in the following fields:
Animal Health and Welfare & Environmental Industries
National Occupational Standards for Animal Management

Date of Approval: **6th March 2009**

Admissions Criteria:

Qualification(s) Required for Entry to the FdSc	**Comments**
Candidates must have at Level 2:	
At Level 2	
Key Skills requirement/Higher Level Diploma	Level 2 Functional Skills English, Key Skills Communications Level 2 or equivalent qualification. Level 2 Functional Skills Maths, Key Skills Application of Number Level 2 or equivalent qualification
and/or	
GCSEs required at Level 4 or above	English and Maths. Science preferred.

Plus at least one of the following Level 3 qualifications:
Ensure that entries in the following sections are equitable; use conversion tables to relate one qualification to another

A Levels required: *(48 UCAS points minimum)*	AS/A levels in related subject field, ideally Biology, Chemistry, Environmental Science or Psychology

Advanced Level Diploma	Award should be in a related subject field
BTEC National Certificate/Diploma	BTEC National Diploma in a related subject field Merit, Merit, Pass minimum (48 points)
HNC/D	Award should be in a related subject field
VDA: AGNVQ, AVCE, AVS	Award should be in a related subject field Pass or above at Level 3
Access to HE or Year 0 provision	In related subject field Level 3
International Baccalaureate	24 Points
Irish/Scottish Highers/Advanced Highers	48 points minimum from Higher Certificates
Work Experience	Candidates are encouraged to apply if they feel they can benefit from the programme. Candidates with non-standard entry applications will be considered on the basis of relevant work experience and attainment of skills, which demonstrate an ability to study at this level. Students with non-standard qualifications may be asked to complete a written piece of work on a relevant subject and/or learning needs assessment. It is recommended that you endeavour to gain experience of formal or informal work within the animal sector before applying for this programme.
Other non-standard awards or experiences	RCVS Veterinary Nursing Certificate NVQ 3 in related subject field
APEL/APCL possibilities	Given the wide experience of potential applicants to this course, applications for Accreditation of Prior Learning (APL) and Accreditation of Prior Experiential Learning (APEL) are welcomed in accordance with South Devon College and University of Plymouth Regulations.
Interview/portfolio requirements	Most applicants will normally receive an interview with a tutor prior to an offer of a place on the Foundation Degree. Students will be asked to complete a written piece of work on a relevant subject prior to an offer of a place.
Independent Safeguarding Agency (ISA) / Criminal Record Bureau (CRB) clearance required	You may be required to complete a CRB check by your work placement provider if regular, close contact with children forms a major part of their business and/or your role. Where this is the case you will be responsible for payment of fees.

Aims of the Programme:
The programme is intended to:

1. Enable students to develop and, where appropriate, build on existing knowledge, skills and experience that enhance and enrich professional practice across work within animal related sectors.
2. Support the development of students interpersonal and communication skills enabling them to gain and practise transferable skills, developing self-awareness, reflection and evaluation of their influences on service users, multi-agency and multidisciplinary teams.
3. Allow students to explore the key contemporary issues in animal related sectors in collaboration with employers and other industry stakeholders
4. To cultivate students' vocational skills across a range of animal related sectors to underpin their personal practice with the professional competencies required by the animal industry.
5. Produce students capable of analysis within animal related sectors to formulate and undertake research and contribute to the development of the sector. Particular focus is given to developing students' ability to statistically analyse data generated by research work.

Programme Intended Learning Outcomes (LO):

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

1. Demonstrate thorough understanding of the triangulation between legislation, Government policy and ethical issues in informing working practice and promoting animal health and welfare within the animal sector.
2. Evaluate normal and abnormal behaviour of a range of animal species related to inherited, physiological and environmental characteristics to propose strategies for promotion of animal health and welfare.
3. Perform practical animal handling and husbandry practices to competent vocational standards.
4. Synthesise an extensive knowledge of animal anatomy and physiology to enable evaluation of animal health and welfare for a range of animal species, and propose strategies to promote wellbeing.
5. Evaluate personal and peer performance and practice to enable reflection to contribute to positive working relationships.
6. Apply research and study skills to contextualise and utilise theory to formulate and conduct research.

2.1.2. Brief Description of the Programme

The Foundation Degree (FdSc) in Animal Science is an innovative programme where theory is rooted in practice and set in the context of your experience. This experience becomes an integral part of the course programme and is interwoven into the underpinning theories of animal science, animal health and welfare and conservation. You will be required to apply the learning from the classroom into your ongoing animal management and conservation practice through work-based learning.

2.1.3. Programme Structure and Pathways

Partner: South Devon College
Academic Year: 2019-20
Programme Code: 3966
Programme Title: FdSc Animal Science
Full/Part Time: Full Time

Level 4					
Module Code	Module Title	Credits	Year of Delivery	Semester/Term of Delivery	Core/Optional
SOUD1124	Developing Research and Practice	20	1	AY	Core
SOUD1262	Animal Husbandry and Handling	20	1	1	Core
SOUD1500	Anatomy and Physiology	20	1	1	Core
SOUD1264	Nutrition	20	1	2	Core
SOUD1022	Principles of Animal Behaviour	20	1	2	Optional
SOUD1265	Foundation Bioscience	20	1	1	Optional
SOUD1023	Habitat conservation and Ecological Sampling	20	1	2	Optional
SOUD1266	Principles of Ecology	20	1	1	Optional
SOUD1267	Conservation Management	20	1	2	Optional
SOUD1032	Wildlife Management and Rehabilitation	20	1	2	Optional
SOUD1268	Introduction to Ecology, Behaviour & conservation	20	1	2	Optional

Partner: South Devon College
Academic Year: 2019-20
Programme Code: 3966
Programme Title: FdSc Animal Science
Full/Part Time: Full time

Level 5					
Module Code	Module Title	Credits	Year of Delivery	Semester/Term of Delivery	Core/Optional
SOUD2320	Wild and Domestic Animal Behaviour	20	2	1	Core
SOUD2090	Animal Health and Welfare	20	2	1	Core
SOUD2070	Specialist Research Study	20	2	AY	Core
SOUD2105	Applied Zoological Science	20	2	2	Optional
SOUD2020	Principles of Behaviour Management and Analysis	20	2	2	Optional
SOUD2215	Sustainable Management	20	2	AY	Optional
SOUD2350	Engaging Audiences in Science	20	1	AY	Optional
SOUD2321	Marine Biology and Environmental Management	20	2	AY	Optional
SOUD2217	Biodiversity and Speciation	20	2	AY	Optional

Partner: South Devon College
Academic Year: 2019-20
Programme Code: 5044
Programme Title: FdSc Animal Science
Full/Part Time: Part time

Level 4 & 5					
Module Code	Module Title	Credits	Year of Delivery	Semester/Term of Delivery	Core/Optional
SOUD1124	Developing Research and Practice	20	1	AY	Core
SOUD1262	Animal Husbandry and Handling	20	1	1	Core
SOUD1500	Anatomy and Physiology	20	1	1	Core
SOUD1265	Foundation Bioscience	20	1	1	Optional
SOUD1268	Introduction to Ecology, Behaviour & conservation	20	1	2	Optional
SOUD1266	Principles of Ecology	20	1	1	Optional
SOUD1264	Nutrition	20	2	2	Core
SOUD1032	Wildlife Management and Rehabilitation	20	2	2	Optional
SOUD1267	Conservation Management	20	2	2	Optional
SOUD1023	Habitat conservation and Ecological Sampling	20	2	2	Optional
SOUD2090	Animal Health and Welfare	20	2	1	Core
SOUD2320	Wild and Domestic Animal Behaviour	20	2	1	Core
SOUD2070	Specialist Research Study	20	3	AY	Core
SOUD2105	Applied Zoological Science	20	3	2	Optional
SOUD2020	Principles of Behaviour Management and Analysis	20	3	2	Optional
SOUD2215	Sustainable Management	20	3	AY	Optional
SOUD2350	Engaging Audiences in Science	20	3	AY	Optional

SOUD2321	Marine Biology and Environmental Management	20	3	AY	Optional
SOUD2217	Biodiversity and Speciation	20	3	AY	Optional

2.1.4. Progression Route(s)

Upon successful completion of the FdSc Animal Science, including appropriate option modules, students will be able to progress to:

University of Plymouth: BSc(Hons) Animal Conservation Science
BSc (Hons) Animal Behaviour & Welfare (Level 5)
BSc (Hons) Applied Animal Science (South Devon College)

It may also be possible for students to progress to level 6 of awards at other universities/colleges.

2.1.5. Any Exceptions to Plymouth University Regulations

N/A

2.1.6. Teaching Methods and Assessments

A: Development of Knowledge and Understanding	**Learning and Teaching Strategy/Method**
By the end of the programme the student will be able to demonstrate knowledge and understanding of: • The animal sector in the UK and apply knowledge of functional anatomy and physiology and environmental impact to promote animal health and welfare for companion, domestic, captive and wild animal species. • Analyse how animal behaviour can influence animal husbandry and welfare in companion, captive, domestic and wild animal species. • Understand and evaluate current issues and ethical problems relating to the animal sector	**Primary** • Lectures and tutorials • Directed independent study • Learning from work experience **Secondary** • Case studies • Problem-solving exercises
NB: Benchmark References QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	**Assessment** A variety of assessment methods are used that emphasise theory/practice links throughout the programme. These include essays, practice-focused assignments, project reports, work based assessments, competency based practice portfolios, seminar presentations and tests. Theory and practice are formatively and summatively assessed against criteria that measure academic and practice levels of performance.

B: Cognitive and Intellectual Skills	Learning and Teaching Strategy/Method
By the end of the programme the student will be able to: By the end of the programme the student will be able to: • Draw on evidence from a range of sources demonstrating an ability to synthesise them. • Draw on evidence to inform practical application of skills and knowledge in evaluation of competing explanations. • Draw reasoned conclusions based on theoretical knowledge.	**Primary** • Class exercises • Tutorial/seminar discussions • Feedback via coursework assessment process (essays etc) **Secondary** • Directed study • E-learning • Learning from work placement
NB: Benchmark References QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	**Assessment** • Assessed presentations • Essays/projects/dissertations • Examinations/tests • Coursework/groupwork on practical application questions

C: Key Transferable Skills	Learning and Teaching Strategy/Method
By the end of the programme the student will be able to: By the end of the programme the student will be able to: • Interact effectively within a team/ learning group. • Manage learning using a range of resources from associated discipline areas. • Communicate effectively in a manner appropriate to the animal sector environment. • Investigate theoretically informed explanations. • Manage information with the ability to select appropriate data from a range of sources and develop appropriate research strategies. • Understand the implications of ethics on research, policy and practice.	**Primary** • *Library and other research exercises* • *Group work awareness and practice* • *Computer-based learning and assessment* **Secondary** • *Class and seminar interactions and feedback*

• Identify and comment on the value of relevant theoretical evidence with regards to animal health, welfare and conservation.	
NB: Benchmark References QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	**Assessment** • Coursework of all types • Examination preparation and completion • Assessed discussions/presentations • Group work assessments

D: Employment Related Skills	**Learning and Teaching Strategy/Method**
By the end of the programme the student will be able to: • Build relationships with colleagues to enable independent work or to contribute effectively as a team member to professional standards • Reflect on their own performance and critically analyse self-continuing professional development. • Plan, manage and develop projects within the animal sector. • Support and develop effective, efficient and ethical animal industry practice. • Perform a range of practical vocational competencies to professional standards.	• Laboratory work • Projects • Designated tasks lectures and tutorials • Learning from work

NB: Benchmark References National Occupational Standards for Animal Management.	A variety of assessment methods are used that emphasise theory/practice links throughout the programme. These include essays, practice-focused assignments, project reports, work based assessments, competency based practice portfolios. seminar presentations and tests. Theory and practice are formatively and summatively assessed against criteria that measure academic and practice levels of performance.
E: Practical Skills	**Learning and Teaching Strategy/Method**
By the end of the programme the student will be able to: By the end of the programme the student will be able to: • Demonstrate a range of academic skills. • Demonstrate understanding of practical research skills. • Practice in an ethically competent way. • Show the ability to practice with consideration of the relevant evidence base. • Understand and implement appropriate and ethical research methodology. • Reflect on theory and practice in a structured and coherent way. • Perform a range of practical vocational competencies to professional standards	**Primary** • Practical assessment • Work placement **Secondary** • Laboratory work • Dissertations

NB: Benchmark References	Assessment
QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	A variety of assessment methods are used that emphasise theory/practice links throughout the programme. These include essays, practice-focused assignments, project reports, work based assessments, competency based practice portfolios, seminar presentations and tests. Theory and practice are formatively and summatively assessed against criteria that measure academic and professional levels of performance.

2.1.7. Distinctive Features of the Foundation Degree

The Animal Science Foundation Degree at South Devon College has been created in direct response to the major contemporary issues in the animal sector. The distinctive features of this course at South Devon College are:

- It provides a challenging curriculum which directly addresses the needs of the animal sector in terms of the knowledge, skills and experience required in the workforce.
- A teaching team of expert staff qualified in a range of subject areas, who undertake regular professional development in related sectors, collaborate with colleagues representing the diverse range of the sector to ensure the programme consistently meets local and national sector requirements.
- The modules chosen to make up your Foundation Degree have evolved to reflect and maximise the vast range of natural and commercial resources available within the local area, allowing the teaching team to maximise the application of theory into 'real-life'. This collaboration ensures thorough embedding of work based learning into the programme and supports the contextualisation of theory into practice.
- Foundation Degrees bring together education and sector experience to benefit both students and employers providing you with the exemplar and transferable skills that employers seek.
- You will be part of an outstanding College within a learning environment tailored to meet your needs thus ensuring your success. You will have access to a range of animal related resources on site including well stocked mammal, exotic and reptile collections.
- The teaching team have varied backgrounds and research interests reflecting the diverse nature of the animal industry and can apply their knowledge to help you forge an interesting and rewarding career.
- The Foundation Degree provides an insight into the development of animal behaviour for a range of species. The influence of human training and therapy on animal behaviour is considered as is the impact of the environment. This will provide the student with the skills to be able to pursue a career within the field of animal behaviour.

- The Foundation Degree considers the management and conservation of a diversity of natural habitats. It explores a sustainable approach to modern captive animal collections and habitat management providing the student with the skills to gain employment in the industry.
- Progression can be either to the BSc (Hons) Animal Conservation Science at Plymouth University or the BSc(Hons) Applied Animal Science at South Devon College.

Your Foundation Degree enables you to choose the modules you wish to study with flexibility. The modules chosen can reflect personal interest or careers, but most of all the Foundation Degree Animal Science is a dynamic, interesting and fun course!

2.1.8. Learning Outcomes Maps for FdSc Animal Science at HE Levels 4 and 5

1 Graduate Attributes and Skills	Level 4		
Core Programme Intended Learning Outcomes (***The FHEQ requirements are already given here in italics***	**Programme Aim**	**Programme Learning Outcome /Subject Benchmark**	**Related Core Modules**
Knowledge/ Understanding *Students will be able to demonstrate a knowledge of the underlying concepts and principles associated with their area(s) of study, and an ability to evaluate and interpret these within the context of that (those) area(s) of study. In particular:* • The animal sector in the UK and apply knowledge of functional anatomy and physiology and environmental impact to promote animal health and welfare for companion, domestic, captive and wild animal species. • Analyse how animal behaviour can influence animal husbandry and welfare in companion, captive, domestic and wild animal species. • Understand and evaluate current issues and ethical problems relating to the animal sector	**1, 3, 4**	**1, 3, 4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD1019, SOUD1020, SOUD1021, SOUD1022, SOUD1023, SOUD1024, SOUD1025, SOUD1032
Cognitive / Intellectual Skills (generic) *Students will be able to demonstrate an ability to present, evaluate, and interpret qualitative and quantitative data, to develop lines of argument and make sound judgements in accordance with basic theories and concepts of their subject(s) of study. They will also be able to demonstrate the ability to evaluate the appropriateness of different approaches to solving problems related to their area(s) of study and/or work. In particular to:* • Draw on evidence from a range of sources demonstrating an ability to synthesise them. • Draw on evidence to inform practical application of skills and knowledge in evaluation of competing explanations. • Draw reasoned conclusions based on theoretical knowledge.	**1, 2, 3, 4, 5**	**1, 2, 3, 4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD1026, SOUD1032, SOUD1020, SOUD1022, SOUD1024, SOUD1025

Key / Transferable Skills (generic) *Students will be able to demonstrate an ability to communicate accurately and reliably, and with structured and coherent arguments. Students will also be able to demonstrate an ability to take different approaches to solving problems. In particular to:* • Interact effectively within a team / learning group. • Manage learning using a range of resources from associated discipline areas. • Communicate effectively in a manner appropriate to the animal sector environment. • Investigate theoretically informed explanations. • Manage information with the ability to select appropriate data from a range of sources and develop appropriate research strategies. • Understand the implications of ethics on research, policy and practice. • Identify and comment on the value of relevant theoretical evidence with regards to animal health, welfare and conservation.	**2, 5**	**2, 4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD1026, SOUD1032, SOUD1020, SOUD1022, SOUD1024, SOUD1025
Employment-related skills *Students will be able to demonstrate an ability to undertake further training and develop new skills within a structured and managed environment and the qualities and transferable skills necessary for employment requiring the exercise of personal responsibility. IN particular to:* • Build relationships with colleagues to enable independent work or to contribute effectively as a team member to professional standards • Reflect on their performance and analyse self continuing professional development. • Plan, manage and develop projects within the animal sector. • Support and develop effective, efficient and ethical animal industry practice. • Perform a range of practical vocational competencies to professional standards.	**2, 3, 4**	**1, 4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD1000, SOUD1032, SOUD1019, SOUD1020, SOUD1021, SOUD1022, SOUD1023, SOUD1024, SOUD1025

Practical Skills (subject specific) • Demonstrate a range of academic skills. • Demonstrate understanding of practical research skills. • Practice in an ethically competent way. • Show the ability to practice with consideration of the relevant evidence base. • Understand and implement appropriate and ethical research methodology. • Reflect on theory and practice in a structured and coherent way. • Perform a range of practical vocational competencies to professional standards.	**1, 2, 3**	**4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD1032, SOUD1019, SOUD1020, SOUD1021, SOUD1022, SOUD1023, SOUD1024, SOUD1025

1 Graduate Attributes and Skills	**Level 5**		
Core Programme Intended Learning Outcomes (***The FHEQ requirements are already given here in italics***	**Programme Aim**	**Programme Learning Outcome /Subject Benchmark**	**Related Core Modules**
Knowledge/ Understanding *Students will be able to demonstrate a knowledge of the underlying concepts and principles associated with their area(s) of study, and an ability to evaluate and interpret these within the context of that (those) area(s) of study. In particular:* • The animal sector in the UK and apply knowledge of functional anatomy and physiology and environmental impact to promote animal health and welfare for companion, domestic, captive and wild animal species. • Analyse how animal behaviour can influence animal husbandry and welfare in companion, captive, domestic and wild animal species. • Understand and evaluate current issues and ethical problems relating to the animal sector	**1, 3, 4**	**1, 3, 4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD2017, SOUD2070, SOUD2071, SOUD2020, SOUD2021, SOUD2022

Cognitive / Intellectual Skills (generic) *Students will be able to demonstrate an ability to present, evaluate, and interpret qualitative and quantitative data, to develop lines of argument and make sound judgements in accordance with basic theories and concepts of their subject(s) of study. They will also be able to demonstrate the ability to evaluate the appropriateness of different approaches to solving problems related to their area(s) of study and/or work. In particular to:* • Draw on evidence from a range of sources demonstrating an ability to synthesise them. • Draw on evidence to inform practical application of skills and knowledge in evaluation of competing explanations. • Draw reasoned conclusions based on theoretical knowledge.	**1, 2, 3, 4, 5**	**1, 2, 3, 4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD2017, SOUD2070, SOUD2071, SOUD2020, SOUD2021
Key / Transferable Skills (generic) *Students will be able to demonstrate an ability to communicate accurately and reliably, and with structured and coherent arguments. Students will also be able to demonstrate an ability to take different approaches to solving problems. In particular to:* • Interact effectively within a team / learning group. • Manage learning using a range of resources from associated discipline areas. • Communicate effectively in a manner appropriate to the animal sector environment. • Investigate theoretically informed explanations. • Manage information with the ability to select appropriate data from a range of sources and develop appropriate research strategies. • Understand the implications of ethics on research, policy and practice. • Identify and comment on the value of relevant theoretical evidence with regards to animal health, welfare and conservation.	**2, 5**	**2, 4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD2017, SOUD2070, SOUD2071, SOUD2020, SOUD2021
Employment-related skills *Students will be able to demonstrate an ability to undertake further training and develop new skills within a structured and managed environment and the qualities and transferable skills necessary for employment requiring the exercise of personal responsibility. IN particular to:* • Build relationships with colleagues to enable independent work or to contribute effectively as a team member to professional standards • Reflect on their performance and analyse self continuing professional development. • Plan, manage and develop projects within the animal sector. • Support and develop effective, efficient and ethical animal industry practice. • Perform a range of practical vocational competencies to professional standards.	**2, 3, 4, 5**	**1, 4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD2017, SOUD2070, SOUD2071, SOUD2020, SOUD2021, SOUD2022

Practical Skills (subject specific) • Demonstrate a range of academic skills. • Demonstrate understanding of practical research skills. • Practice in an ethically competent way. • Show the ability to practice with consideration of the relevant evidence base. • Understand and implement appropriate and ethical research methodology. • Reflect on theory and practice in a structured and coherent way. • Perform a range of practical vocational competencies to professional standards.	**1, 2, 3, 4, 5**	**4, 5** QAA Agriculture, forestry, agricultural sciences, food sciences and consumer sciences QAA Biosciences QAA Environmental Industries National Occupational Standards for Animal Management	SOUD2017, SOUD2070, SOUD2071, SOUD2020, SOUD2021, SOUD2022

3. Module Records

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1124	**MODULE TITLE:** Developing Research and Practice

CREDITS: 20	**FHEQ LEVEL:** 4	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** No

SHORT MODULE DESCRIPTOR:
This module is designed to enable students to demonstrate that they have all the qualities and transferable skill necessary for relevant employment requiring the exercise of responsibility and decision making, including the ability to relate their professional practice to underlying theory and principles.

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ELEMENTS OF ASSESSMENT

COURSEWORK	
C1	100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Subject External

Professional body minimum pass mark requirement: NA

MODULE AIMS:

- To enable students to develop a comprehensive portfolio of evidence that supports their career development and practice
- To enable students to demonstrate an approach to their practice that is informed by up to date and relevant theoretical perspectives
- To support students in developing as autonomous learners at HE level
- To develop relevant mathematical, and laboratory management, skills

ASSESSED LEARNING OUTCOMES: (additional guidance below)

1. Demonstrate how relevant theoretical perspectives have informed and enhanced practice.
2. Select examples from their practice to illustrate their understanding of the well-established principles of the area(s) of study in the programme.
3. Demonstrate an ability to identify, locate, critically evaluate and use information appropriate to the task in hand.
4. Demonstrate the ability to work independently and in a team in a manner that meets professional requirements.
5. Demonstrate mathematical and research related skills in the area(s) of study;
6. Demonstrate the ability to communicate in styles appropriate for a variety of professional purposes and audiences.
7. Evaluate own strengths and weaknesses, and areas requiring further development, as part of the continuing Personal Development Plan (PDP).

DATE OF APPROVAL: 10/02/2010	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 09/2010	**SCHOOL/PARTNER:** SDC
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** 10/AY/AU/M

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Stuart Collier	**OTHER MODULE STAFF: N/A**

Summary of Module Content

Academic literacy and research conventions in Bioscience; The requirements of professional practice; Informed reflection, self-evaluation and personal action planning; Relevant ICT and mathematical competences to support academic and professional practice; Information Literacy, including search strategies, identification and critical selection of quality, scholarly information. Key processes in laboratory management.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lectures/Seminars	60	2 hours per week for 30 weeks
Guided independent study	140	Directed weekly reading, moodle based tasks, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Coursework	C1	Swot Analysis and PDP Portfolio and PDP	20% 80% Total = 100%	LO7. LO1 – LO6.

Updated by: Stuart Collier Date: 17/05/19	**Approved by**: Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1262		**MODULE TITLE:** Animal Husbandry & Handling
CREDITS: 20	**FHEQ LEVEL:** 4	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
This module explores the husbandry and housing requirements of a range of animal species in private and commercial establishments. Genetic, environmental and ethical influences are considered in conjunction with private and commercial husbandry practices, veterinary manipulation of the reproductive process and advances in reproductive science. Appropriate handling and restraint techniques and associated health and safety considerations for a range of species are also covered.

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ELEMENTS OF ASSESSMENT

PRACTICAL		COURSEWORK	
P1	30%	**C1**	70%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
This module aims to enable the student to be able to describe the housing and husbandry requirements of common species, and explore the practices used in commercial establishments. To identify good and poor husbandry practices. To explore contemporary advances in the field of animal reproduction and link these to animal husbandry and commerciality. To demonstrate basic handling and restraint techniques in common animal species and identify appropriate handling and restraint equipment. To identify the health and safety risks associated with handling animals and the impact that incorrect technique can have on animal species welfare.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Describe and evaluate common private and commercial husbandry practices for a range of species in both breeding and non-breeding establishments.
2. Design appropriate housing and husbandry protocol in a named species during different life stages with consideration of legislative requirements and impacts upon animal health and welfare.
3. Reflect on veterinary manipulation to promote and prevent the reproductive process in animal species.
4. Apply the basic principles of genetics to describe inheritable factors in animal species.
5. Demonstrate practical basic handling and restraint of a range of species and identify appropriate techniques and equipment that can be used to protect the health, safety and welfare of animal and handler.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Stuart Collier	**OTHER MODULE STAFF: N/A**

Summary of Module Content
This will include: Application of the 5 freedoms; Animal housing requirements and considerations in a variety of species, husbandry regimes in companion and livestock species, legislative requirements, hygiene practices and principles of cleaning and disinfectants, identification of good and poor husbandry practices. Alternative breeding mechanisms e.g. AI, embryo transfer, advances in reproductive science; husbandry and environmental management of breeding animals, parturition and care of neonate, care of young stock, veterinary manipulation of reproduction. Appropriate handling and restraint techniques in companion, livestock and exotic pet species, reasons why handling and restraint may be needed, techniques to protect health, safety and welfare of animal handlers and animals involved, animal handling and restraint equipment.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lecturers/seminars	60	4 hours per week for 15 weeks
Guided independent study	140	1 hour research task each week, 50 hours assignment time and prep
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Practical	P1	Handling assessment	100%	LO3, LO4.
Coursework	C1	Written report	100%	LO1, LO2. LO5.

Updated by: Stuart Collier Date: 17/05/19	**Approved by**: Marianne Readman Date: 29/05/19

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1500	**MODULE TITLE: Anatomy and Physiology**	
CREDITS: 20	**FHEQ LEVEL: 4**	**HECOS CODE: 100937 Animal Physiology**
PRE-REQUISITES: NONE	**CO-REQUISITES: NONE**	**COMPENSATABLE: Y**

SHORT MODULE DESCRIPTOR: *(max 425 characters)*
This modules aims to provide a comprehensive insight into the anatomy and physiology of companion, domestic and exotic animal species. It will develop an appreciation of biological and physiological differences between species and an understanding of the impact of comparative anatomy on survival and how this can be used to inform efficient management.

ELEMENTS OF ASSESSMENT *[Use HESA KIS definitions] – see Definitions of Elements and Components of Assessment*			
C1 (Coursework)	60%	**T1** (Test)	40%

SUBJECT ASSESSMENT PANEL to which module should be linked: FdSc Animal Science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To provide the underpinning knowledge of anatomy and physiology of a range of species and body systems. The module also aims to enable the student to compare and contrast the impact of physical adaptations to be able facilitate effective management of a range of animal species.

ASSESSED LEARNING OUTCOMES: (additional guidance below; please refer to the Programme Specification for relevant award/ programme Learning Outcomes.

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	**Award/ Programme Learning Outcomes contributed to**
1. Identify the anatomy of selected body systems in a range of species. 2. Describe the normal anatomical and physiological function in a range of species 3. Discuss how anatomical and physiological dysfunction relates to disease processes.	4. Synthesise an extensive knowledge of animal anatomy and physiology to enable evaluation of animal health and welfare for a range of animal species, and propose strategies to promote wellbeing.

DATE OF APPROVAL: 16/01/2019	**FACULTY/OFFICE: Academic Partnerships**
DATE OF IMPLEMENTATION: 23/09/2019	**SCHOOL/PARTNER: South Devon College**
DATE(S) OF APPROVED CHANGE: XX/XX/XXXX	**SEMESTER: Semester 1**

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20 **NATIONAL COST CENTRE: 109**
MODULE LEADER: Marianne Readman **OTHER MODULE STAFF: None**

Summary of Module Content
This will include: cytology, tissues, organs, visceral systems, sense organs, nervous system, reproductive anatomy, endocrinology, immunology in a range of animal species; gross anatomy. Will also include common diseases and disorders related to dysfunction of body systems and physical adaptations and their link to survival.

SUMMARY OF TEACHING AND LEARNING *[Use HESA KIS definitions]*		
Scheduled Activities	**Hours**	**Comments/Additional Information (briefly explain activities, including formative assessment opportunities)**
Lectures/Seminars	60	4 hours per week for 15 weeks
Guided independent study	140	Directed weekly reading, moodle based tasks and assessment development/revision
Total	**200**	**(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)**

SUMMATIVE ASSESSMENT

Element Category	**Component Name**	**Component Weighting**
Test	In Class Test 1 hour duration LO1	100%
Coursework	Illustrated Essay 2,400 words LO2 & 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Illustrated Essay 2,400 words LO 2 & 3	100%
Test	In Class Test 1 hour duration LO 1	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by Marianne Readman Date: 18-01-19	**Approved by**: James McCawley Date: 18-01-19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1264	**MODULE TITLE:** Nutrition

CREDITS: 20	**FHEQ LEVEL:** 4	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
This unit enables the student to apply the basal principles of Nutrition to a range of animal species with consideration to their physiological status. Application of this knowledge to formulate effective dietary protocols to promote health will be introduced.

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ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK	
T1 (in-class test)	40%	**C1**	60%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
This module aims to develop an underpinning knowledge of dietary formulation linked to nutritional requirements for a range of companion, domestic and captive animal species.
To apply knowledge of basal nutritional requirements to contextualise individual needs with consideration of life stage and health status to produce effective dietetic strategies.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Calculate basal energy requirements for a range of animal species to formulate accurate daily rations with due consideration of the individual's needs.
2. Describe the essential nutrients and the process of digestion in herbivores, omnivores and carnivores.
3. Analyse the effect of clinical nutrition as a complementary treatment in animal disease.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Marianne Readman	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: classification of essential nutrients: composition, roles, requirements, dietary examples, life stage and clinical nutrition, advances in animal Nutrition, formulation of rations and nutritional calculations, food analysis, deficiencies and excesses, diet related disease, treatment regimes, commercial and homemade diets; review of digestive systems; nutritional disease; food supplements; nutritional strategies in companion, domestic and captive animal species.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lectures/Seminars	40	3 hours per week for 14 weeks
Guided independent study	155	Directed weekly reading, moodle based tasks, and assessment development/revision
External visits	5	Animal Collection nutritionalist presentation
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written exam	T1	In Class Test	100%	1.5 hour duration. LO2
Coursework	C1	Written report or alternative as negotiated with students.	100%	Equivalence of 2,400 words. LO1, LO3.

Updated by: Marianne Readman Date: 20/05/19	**Approved by**: James McCauley Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1022	**MODULE TITLE:** Principles of Animal Behaviour

CREDITS: 20	**FHEQ LEVEL:** 5	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
This module introduces the concept of animal psychology and explores the underpinning principles of animal behaviour to enable analysis of normal and abnormal animal behaviour. Research methodologies and their application are considered to allow the learner to propose and perform basic behavioural research studies.

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ELEMENTS OF ASSESSMENT

COURSEWORK	
C1	100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To evaluate animal behaviour and explain observations in relation to established behavioural principles. To develop psychological profiles for specific behaviours exhibited and argue their ontogeny. To perform practical behavioural measurement and analysis of results.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Describe established behavioural principles in relation to animal populations.
2. Identify environmental and genetic causes of animal behaviour.
3. Assess and analyse animal behaviour to promote health and welfare.
4. Conduct behavioural studies and present the results.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 1

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Rachel Rayers	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: ethology; ethograms & practical measurement of behaviour, behavioural psychology, behavioural physiology, evolution of behaviour, socio-biology, population biology, sensory behaviour, navigation and migration, competition, animal classification – behavioural term, fitness; analysis of innate and learnt behaviour, Tinbergen's questions; application of the 5 key needs; contemporary issues in animal psychology.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled lectures/seminars	60	4 hours per week for 15 weeks
Guided Independent Study	140	Directed weekly reading, moodle based tasks, revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Coursework	C1	Behaviour Presentation A field based study and report	60% 40% 00%	LO1, LO2 LO3, LO4

Updated by: Date: Marianne Readman 18/05/19	**Approved by**: James McCauley Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1265	**MODULE TITLE:** Foundation Bioscience

CREDITS: 20	**FHEQ LEVEL:** 4	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
This module introduces a range of essential elementary principles of biological science. It is designed for the learner from a non-scientific background to establish their knowledge of key concepts that will feature throughout their programme of study.

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ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK	
T1 (In class test)	50%	**C1**	50%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To develop a basal knowledge of the key concepts of the biological sciences. To demonstrate competent experimental skills including design, application and analysis. To undertake competent microscopy.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Use a range of laboratory equipment in a competent manner.
2. Plan, perform, record and analyse a scientific experiment.
3. Explain a range of key scientific principles essential to plant and animal life.
4. Describe the structure and lifecycles of selected micro-organisms (to include both pathogenic and non-pathogenic examples).

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 1 & 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Andrew Walker-Brown	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: Laboratory practice; microscopy; experimental design, implementation, analysis and evaluation; biological macromolecules including an introduction to molecular structure and bonding; cell ultra-structure; cellular transport; cell division; photosynthesis and respiration; plant structure and function including flowering, pollination, seed dispersal and transpiration; basic microbiology.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lectures/Seminars	36	3 hours per week for 12 weeks
Practical classes and workshops	9	3 hours per week for 3 weeks
Guided independent study	155	Directed weekly reading, moodle based tasks, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written exam	T1	In class test	100%	2 hours. LO3, LO4.
Coursework	C1	Design, implement, analyse and evaluate a chosen experiment.	100%	LO1, LO2,

Updated by: Andrew Walker-Brown Date: 08/05/19	**Approved by**: Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1023	**MODULE TITLE:** Habitat Conservation & Ecological Sampling

CREDITS: 20	**FHEQ LEVEL:** 4	**JACS CODE:** G400

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
Habitats and the ecosystems they support are commonly coming under threat from human and environmental influences in the modern world. This module considers the diversity of environments within Britain and the issues that surround their conservation. To demonstrate common fieldwork techniques undertaken in ecological surveys and use statistics to analyse data to inform management decisions.

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ELEMENTS OF ASSESSMENT	
COURSEWORK	
C1	100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: NA

MODULE AIMS:
To identify the various habitats and their indigenous and non-indigenous species within the UK. To explore contemporary issues that influence habitat conservation. To discuss and describe a range of common conservation practices employed to preserve flora and fauna. To use statistical analysis of ecological data as a tool to inform conservation decisions.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

1. Outline the biotic and abiotic components that differentiate a range of habitats within the UK.
2. Undertake an ecological field study of a selected habitat using a range of ecological sampling techniques
3. Perform and interpret basic statistical analysis to make informed conservation management decisions
4. Describe contemporary issues affecting British habitats.

DATE OF APPROVAL: 06/03/2009	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION:01/09/2009	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Matt Rossin	**OTHER MODULE STAFF:**

Summary of Module Content

British habitats: woodland, upland, moor land, river, marine, wetland, grassland, heath land, human influence; exploitation; habitat conservation techniques and considerations; indigenous/non-indigenous species; contamination of environments; contemporary issues in habitat conservation and management; fieldwork techniques – survey techniques; methods and limitations of sampling terrestrial, aquatic and littoral ecosystems; statistical analysis of data.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lectures	45	1.5 hour sessions per week for 30 weeks
Scheduled Tutorial	15	Group and one-to-one sessions for assignment and learning support.
Guided independent study	140	Directed weekly reading, moodle based tasks, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Coursework	C1	Informative A1 poster Written report	60% 40% 100%	Of the two named UK habitats (2000 words) LO1, LO4. Of a field survey of an identified habitat to include statistical analysis. (1500 words) LO2, LO3.

Updated by: Matt Rossin Date: 20/05/19	**Approved by**: Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1266	**MODULE TITLE:** Principles of Ecology

CREDITS: 20	**FHEQ LEVEL:** 4	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
An introduction to the concepts of Ecology with exploration in relation to a local, national and international perspective. The complex relationship between speciation and competition are considered to explain ecosystem dynamics. The module will also investigate aspects of behavioural ecology relevant to wildlife conservation.

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ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK	
T1 (in-class test)	40%	**C1**	60%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: NA

MODULE AIMS:
To outline ecological concepts that influence ecosystems and roles of behaviour in enabling an animal to adapt to their environment. To consider various factors that influence speciation and affect population dynamics. To understand the spatial and temporal distribution of habitats and how these are influenced by the cycling of nutrients and energy through the ecosystem.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

1. Reflect on the components of a selected ecosystem with reference to ecological concepts.
2. Describe how nutrient cycling can influence the biodiversity of an ecosystem.
3. Explain the mechanisms of speciation and how they influence the evolution of new species.
4. Describe the role of behavioural process on the structure and function of an ecosystem.

DATE OF APPROVAL: 06/03/2009	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION:01/09/2009	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** 1

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Matt Rossin	**OTHER MODULE STAFF:**

Summary of Module Content

This will include: Trophic structures and nutrient cycling; Ecological concepts such as succession, ecological niches and zonation, biomes; Principles of behavioural ecology including ecological strategies and game theory, selection types and theories, evolution and speciation.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lectures	45	1.5 hour sessions per week for 30 weeks
Scheduled Tutorial	15	Group and one-to-one sessions for assignment and learning support.
Guided independent study	140	Directed weekly reading, moodle based tasks, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written Exam	T1	In-Class Test	100%	1 hour. LO3, LO4.
Coursework	C1	Written structured report	100%	2000 words. LO1, LO2.

Updated by: Matt Rossin Date: 20/05/19	**Approved by**: Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1267	**MODULE TITLE:** Conservation Management

CREDITS: 20	**FHEQ LEVEL:** 4	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
Conservation management is essential in the modern world to preserve the diversity that occurs within nature. This module will investigate the processes involved with activating the conservation process: effective communication, funding, improvement strategies for short and long term management of conservation areas to promote biodiversity.

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ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK	
T1 (in-class test)	40%	**C1**	60%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: NA

MODULE AIMS:
To enable the student to develop the skills to undertake a conservation project from conception to conclusion. To plan and evaluate strategies for short, medium and long term management of conservation areas. To consider the differences between conservation in rural and urban environments with reference to tourism and volunteers. To formulate a grant application and identify possible funding sources for conservation projects.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

1. Formulate strategies to promote conservation in rural and urban environments.
2. Identify relevant legislation and organisations that contribute to conservation in the UK.
3. Devise and justify short, medium and long term conservation plans which promote biodiversity.
4. Communicate effectively in a concise manner.

DATE OF APPROVAL: 06/03/2009	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/01/2009	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Matt Rossin	**OTHER MODULE STAFF:**

Summary of Module Content

This will include: Legislation, organisations and their roles, funds and grants, volunteers. Conservation strategies and an understanding of the process of planning, implementation, monitoring and management (short, medium and long term) of a conservation plan in the UK (to incorporate effective communication skills); Conservation in action in rural and urban communities. Tourism and conservation; Biodiversity; conservation strategies for terrestrial, littoral and aquatic habitats; Allocation of protected status and designated areas; Global issues in conservation management.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lectures	45	1.5 hour sessions a week for 30 weeks
Scheduled Tutorial	15	Group and one-to-one sessions for assignment and learning support.
Guided independent study	140	Directed weekly reading, moodle based tasks, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written Exam	T1	In-Class Test	100%	1 hour. LO2.
Coursework	C1	Written Report	100%	LO1, LO3, LO4.

Updated by: Matt Rossin Date: 20/05/19	**Approved by**: Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1032	**MODULE TITLE:** Wildlife Management & Rehabilitation

CREDITS: 20	**FHEQ LEVEL:** 4	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
Growing human populations and subsequent changes to land use impact greatly on wildlife populations. This module considers the diversity of wildlife within Britain and the issues that surround management and conservation. It also explores the role of wildlife charities and organisations including rehabilitation and release processes for wildlife causalities.

.

ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK	
E1 (Formally scheduled)	40%	**C1**	60%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To employ common methods to identify and monitor wildlife populations. To describe the impact of human populations on wildlife. To explore historic and contemporary issues that influence wildlife management and rehabilitation. To discuss and to describe a range of common conservation, monitoring and rehabilitation practices for wildlife species.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Monitor wildlife populations and apply knowledge to identify individual species within given habitats.
2. Explain and evaluate the success of different wildlife management strategies.
3. Describe common protocols utilised in the capture, rehabilitation, release and monitoring of wildlife casualties.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 1 & 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Stuart Collier	**OTHER MODULE STAFF:**

Summary of Module Content
Ethics, identification, monitoring, rehabilitation, release and capture techniques for wildlife species, application of 5 key needs; human influence; exploitation, land use practices: agriculture, industrial, urban, forestry, diversification; effects of human population growth on wildlife; management strategies to enable wildlife and society to co-exist; common approaches to wildlife conservation techniques and considerations, and rehabilitation; contemporary issues in habitat and wildlife conservation and management.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lecturers/seminars/practicals	60	4 hours per week for 15 weeks
Guided independent study	140	Directed weekly reading, moodle based tasks, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written exam	E1	Examination	100%	1.5 hours: short answer questions. LO3.
Coursework	C1	Structured report & information booklet	100%	LO1, LO2

Updated by: Stuart Collier Date: 05/06/19	**Approved by**:Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1268	**MODULE TITLE:** Introduction to Ecology, Behaviour and Conservation

CREDITS: 20	**FHEQ LEVEL:** 4	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
This module offers an introduction to the basic concepts of ecology such as and nutrient cycling and energy transfer. The complex relationship between speciation, genetics and populations are considered in relation to contemporary conservation issues. The module also demonstrates how conservation management and techniques are influenced by an understanding of behavioural ecology.

.

ELEMENTS OF ASSESSMENT			
WRITTEN EXAMINATION		COURSEWORK	
T1 (In class test)	30%	**C1**	70%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To outline the ecological concepts, such as energy transfer and nutrient cycling, that influence biodiversity. To consider how the concepts of speciation and genetic diversity influence population dynamics and as a result, conservation efforts. To understand how behavioural ecology underpins conservation management decisions. To understand how ecological sampling techniques are used to survey habitats and inform conservation policies.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Describe how ecological interactions influence patterns of biodiversity.
2. Undertake an ecological field survey using a range of ecological sampling techniques
3. Explain how the knowledge of speciation and genetics inform conservation decisions.
4. Describe how behavioural ecological theories are used as conservation management tools.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 1 & 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Rea Sims	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: Ecological concepts such as energy transfer, productivity, ecological niches and nutrient cycling; Principles of behavioural ecology include ecological strategies, game theory, selection types and theories; Principles of evolution, speciation and ecological genetics; Fieldwork techniques – sampling and survey techniques; Conservation case studies.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lectures	36	1.5 hour sessions
Practical classes and workshops	4	Genetic Bottleneck simulation/Island Biogeography simulation
Fieldwork	8	Rocky Shore Zonation/Ecological Succession (Dawlish)
Scheduled Tutorial	5	Group and one-to-one sessions for assignment and learning support.
Guided independent study	147	Directed weekly reading, moodle based tasks, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written Exam	T1	In Class Test	100%	1 hour 30 minutes. LO3, LO4
Coursework	C1	Fieldwork report	100%	LO1, LO2

Updated: Rea Sims Date: 20/05/19	**Approved by**: Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD2320	**MODULE TITLE:** Wild and Domestic Animal Behaviour

CREDITS: 20	**FHEQ LEVEL:** 5	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
This module considers evolutionary, environmental and genetic influences on the behaviour of wild and domestic animal species. Exploration of the ontogeny and phylogeny of behaviours are utilised to appraise private and commercial management practices in domestic animal species to promote health and welfare and economic success. To evaluate the influence of mankind on conservation of wild species. To justify and argue the effects of exploitation of wild animal species with reference to contemporary issues in the field.

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ELEMENTS OF ASSESSMENT

COURSEWORK		PRACTICAL	
C1	40%	**P1**	60%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To identify, discuss and critically analyse evolutionary, environmental and genetic basis for behavioural strategies observed within wild and domestic animal species. To translate ideas and apply them to formulate behavioural approaches that will enhance health and welfare. To evaluate human influence on wild animal behaviour and translate ideas and apply them into conservation strategies. To discuss and reflect upon current research and emerging issues in the field of wild and domestic animal behaviour.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Analyse the effects of evolution, domestication and environmental influence on wild and domestic animal behavioural strategies
2. Evaluate the effects of human influence on domestic animal behaviour and the management systems employed in the domestic environment to promote good health and welfare.
3. Evaluate the effects of human influence on wild animal behaviour and the management systems employed to promote species and habitat conservation

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 1

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Stuart Collier	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: Companion, domestic and wild animal behaviour; domestication and evolution, ontogeny, phylogeny of species; 5 key needs; husbandry and management considerations from a behavioural perspective; contemporary issues in domestic animal behaviour; conservation, exploitation of behaviour, contemporary issues for local, national and global animal behaviour.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lecturers/seminars	45	3 hours per week for 15 weeks
Guided independent study	155	Directed weekly reading, moodle based tasks, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Practical	P1	Oral Presentation	100%	20 minutes (2800 words) LO2, LO3.
Coursework	C1	Supplementary report	100%	1200 words. LO1

Updated by: Stuart Collier Date: 05/06/19	**Approved by**: Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD2090	**MODULE TITLE:** Animal Health and Welfare

CREDITS: 20	**FHEQ LEVEL:** 5	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
This module aims to provide a basic understanding of the principles of maintaining animal health, prevention of infection and provision of palliative care for animal species. It will incorporate discussion of disease processes, veterinary diagnosis and treatment regimes and the practical application of emergency medicine in animals.

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ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK	
E1 (Formally scheduled)	30%	**C1**	70%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
This module aims to provide a basic understanding of the principles of maintaining animal health, prevention of infection and provision of palliative care for animal species. To develop a working knowledge of disease processes, veterinary diagnosis and treatment regimes and the practical application of emergency medicine in companion animals' species.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Analyse variables that contribute to maintenance of animal health and welfare.
2. Describe the aetiology and diagnosis of common animal diseases and parasites.
3. Propose veterinary treatment protocols and biosecurity measures to control transmission and spread of animal diseases and parasites
4. Apply underpinning knowledge of animal emergency medicine to promote life.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 1

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Marianne Readman	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: common diseases and parasites of companion, domestic and exotic animal species, immunology, disease transmission, control techniques and biosecurity measures, vaccination, psychological influences on animal health and welfare, poisons, basic animal emergency medicine: first aid, common surgical procedures, nursing plans and veterinary treatment regimes; medicinal role of plants; complementary medicine; environmental and genetic influences on health; diagnostic evaluation of health; elementary pharmacology.

SUMMARY OF TEACHING AND LEARNING		
Scheduled Activities	**Hours**	**Comments/Additional Information**
Scheduled lectures/seminars/laboratory session	45	3 hours per week for 15 weeks
Guided Independent Study	155	Directed weekly reading, moodle based tasks, revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written exam	E1	Examination	100%	1 hour duration. LO1, LO4.
Coursework	C1	A written structured report	100%	3000 words. LO2, LO3.

Updated by: Date: Marianne Readman 18/05/19	**Approved by**: James McCauley Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD2070	**MODULE TITLE:** Specialist Research Study

CREDITS: 20	**FHEQ LEVEL:** 5	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** No

SHORT MODULE DESCRIPTOR:
This module will enable the student to demonstrate their ability to work independently in the production of a substantial piece of work that demonstrates significant investigation in a field related to their relevant subject sector.

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ELEMENTS OF ASSESSMENT

COURSEWORK	
C1	100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
Development of the necessary skills to produce an independently researched project in the student's related subject field which demonstrates a broad understanding of the range of research methodology in their sector.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Apply independence in a choice of study that will demonstrate individual knowledge, skills, commitment and personal responsibility.
2. Demonstrate their ability to contextualise and utilise theory in their related subject sector.
3. Communicate hypotheses, formulate and apply research methodologies in their related subject sector.
4. Locate and manage data and information in support of their work.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semesters 1 & 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Andrea Gaion	**OTHER MODULE STAFF:**

Summary of Module Content
Content will be directed and identified during the exploration of the specialist research study, it may include: identifying sources of evidence, critical appraisal skills, presenting information, project management, problem solving, research methodologies and data collection methods and analysis.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled lectures/seminars	45	1.5 hours per week for 30 weeks
Guided Independent Study	155	Directed weekly reading, moodle based tasks, revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Coursework	C1	Research Proposal	20%	LO1
		Literature Review	30%	LO2.
		Scientific Report	50%	LO3, LO4.
			100%	

Updated by: Date: Andrea Gaion 18/05/19	**Approved by**: Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD2105	**MODULE TITLE:** Applied Zoological Science

CREDITS: 20	**FHEQ LEVEL:** 5	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
Zoos and safari parks are an established component of modern society; this module provides an overview of their practice to provide an insight into the management of wild animal collections. Exploration of the re-branding of zoos as 'eco-parks', their role in conservation of plants and animals and as public education facilities are analysed.

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ELEMENTS OF ASSESSMENT

COURSEWORK	
C1	100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To provide a working knowledge of management systems in zoological collections. To plan and critique enclosure designs. To discuss the contribution of zoological collections to ecosystem conservation.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Define and apply common management techniques employed in zoological collections.
2. Evaluate enclosure design via consideration of biological, psychological and physical variables to enhance animal health and welfare.
3. Analyse the influence of research and conservation undertaken in zoological collections to promote biodiversity in the natural world.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: TBC	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: Legislation, history of zoos, safari parks and private collections, role of keeper, enclosure design, record keeping, breeding programmes and conservation, health and safety, public communication role, enrichment, health and welfare of zoological collections, veterinary treatment of zoo collections, nutrition; role of plants – design and medicinal; visitor management; education and research.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled lectures/seminars	45	3 hours per week for 15 weeks
Guided Independent Study	155	Directed weekly reading, moodle based tasks, revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Coursework	C1	Exhibit design	60%	2500 words. LO1, LO2
		Essay	40%	1500 words. LO3
			100%	

Updated by: Date: Marianne Readman 18/05/19	**Approved by**: James McCauley Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD2020	**MODULE TITLE:** Principles of Behaviour Management and Analysis

CREDITS: 20	**FHEQ LEVEL:** 5	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
Behavioural therapy is a complementary branch of veterinary medicine; critical evaluation of the rationale for the exhibition of specific behaviours can inform treatment of behavioural disorders. This module defines and clarifies research methodologies to formulate behavioural manipulation strategies to improve animal health and welfare.

.

ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK	
E1 (Formally scheduled)	30%	**C1**	70%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To explore the root causes of a range of behavioural disorders commonly presented in companion, domestic and captive animal species. To discuss and evaluate the role of human influence on animal behaviour. To define and analyse the influence of pharmaceutical, endocrinological and behavioural manipulation of animal behaviour. To propose valid and effective training methodologies to enhance animal health and welfare.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Identify and analyse the causes of animal behavioural disorders.
2. Propose valid methodologies for the treatment or modification of animal behavioural disorders.
3. Translate current ideas to formulate effective animal training strategies.
4. Appraise current research and critically reflect on human influence in exhibition of abnormal animal behaviour.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** Semester 2

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Rachel Rayers	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: Behavioural analysis and consultations; pharmacological control of behaviour; environmental control of behaviour; genetic manipulation of behaviour; research methods and analysis; common behavioural disorders of companion, domestic and captive animals; influence of evolution, domestication, ontogeny and social behaviour on animal species; human interaction; application of behaviour modification techniques; animal training; pathophysiological behavioural problems; contemporary issues in animal behaviour.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled lectures/seminars	45	3 hours per week for 15 weeks
Guided Independent study	155	Directed weekly reading, moodle based tasks, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written Exam	E1	Formal examination	100%	1.5 hour. LO3.
Coursework	C1	Literature Review	100%	3000 words. LO1, LO2, LO4

Updated by: Date: Marianne Readman 18/05/19	**Approved by**: James McCauley Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD2215	**MODULE TITLE:** Sustainable Management

CREDITS: 20	**FHEQ LEVEL:** 5	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
The object of this module is to introduce the concept of sustainable management to a range of environments and industries. The legislative boundaries, human exploitation and globalisation will be considered to inform effective decision making for sustainable practices and natural resource conservation.

.

ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK	
T1 (in class test)	30%	**C1**	70%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To explore historic and contemporary approaches to sustainable management within the global context. To enable analysis of current practices to make informed decisions on effectiveness of sustainable management practices.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Communicate ideas and concepts that comprise sustainable management in practice.
2. Appraise sustainable management in practice to preserve natural resources.
3. Analyse the influence of global and environmental change and predict their effects on sustainable management in a range of environments.
4. Recognise and justify socio-economic limitations of sustainable practice.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** AY

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Andrew Walker-Brown	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: Legislation; theories, concepts and applications of sustainable management; sustainable management of biological resources and waterways; environmental economics; global climate and environmental change; globalisation; activism; human exploitation; environmental impact assessment; energy management; project and project design; sustainable natural resource utilisation; cost benefit analysis; contemporary local, national and global issues.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lectures/Seminars	39	1 hours per week for 32 weeks, plus trips to relevant organisations.
Guided independent study	160	Directed weekly reading, moodle based tasks, and assessment development/revision
External visits	6	Recycling and waste water treatment centres
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written exam	T1	In class test	100%	2 hours. LO3, LO4.
Coursework	C1	Structure of assessment to be negotiated with the group.	100%	Equivalence of 1500 words. LO1, LO2.

Updated by: Andrew Walker-Brown Date: 08/05/19	**Approved by**: Marianne Readman Date: 29/05/19

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD2350 **MODULE TITLE:** Engaging Audiences in Science
CREDITS: 20 **FHEQ LEVEL: 5** **JACS CODE:** C161
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR: *(max 425 characters)*
This module provides learners with the skills to disseminate aspects of science to the public to engage them on marine and science issues. The learner will reflect on the efficacy and value of different forms of communication and evaluate their appropriateness for different audiences. Students will be challenged to present complex marine issues in a simplified way so that it can be processed by the general public.

ELEMENTS OF ASSESSMENT *[Use HESA KIS definitions] – see Definitions of Elements and Components of Assessment*			
E1 (Examination)		**C1** (Coursework)	100%
E2 (Clinical Examination)		**A1** (Generic assessment)	
T1 (Test)		**P1** (Practical**)**	

SUBJECT ASSESSMENT PANEL to which module should be linked: FdSc Animal Science

Professional body minimum pass mark requirement: NA

MODULE AIMS:

- To develop a broad understanding of the principles of effective communication.
- To enable students to gain employability skills by becoming efficient and competent communicators through a variety of media.
- To develop a critical awareness of presentations designed for general audiences.
- To encourage independent study and presentation on a marine topic of their choice.
- To develop both practical and transferable skills, and allow students to integrate and present knowledge from across their programme of study.

ASSESSED LEARNING OUTCOMES: At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	**Award/ Programme Learning Outcomes contributed to**
1. Independently access and critically evaluate examples of science dissemination. 2. Create resources to effectively communicate a science topic to different audiences. 3. Critically evaluate the importance of public engagement in science.	6. Apply research and study skills to contextualise and utilise theory to formulate and conduct research.

DATE OF APPROVAL: 01/02/2018	**FACULTY/OFFICE:** Academic Partnerships

DATE OF IMPLEMENTATION: 09/2018	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: XX/XX/XXXX	**SEMESTER:** Semester 1 & Semester 2

Additional notes (for office use only):

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111
MODULE LEADER: Samantha Law	**OTHER MODULE STAFF:** None

Summary of Module Content

Learning and communication theories, dissemination, science education, presentation methods, resource design, citizen science, working with the media. Emerging technologies and their effective use for engaging non-scientific audiences will be evaluated. The module will include discussing and evaluating the communication of ideas by presentation, leaflets, posters, events, social and electronic media and teaching sessions to both adults and children.

SUMMARY OF TEACHING AND LEARNING		
Scheduled Activities *[KIS definitions]*	**Hours**	**Comments/Additional Information (briefly explain activities, including formative assessment opportunities)**
Scheduled Lectures/Seminars	45	1.5 hours for 20 weeks
Scheduled Tutorial/ Project supervision	15	Project workshops, one-to-one and group tutorials
Guided independent study	140	Directed weekly reading, Moodle based tasks, assessment development/revision
Total	**200**	**(NB: 1 credit = 10 hours of learning; 20 credits = 200 hours, etc.)**

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Portfolio Part A (LO's 1&3) Portfolio Part B (LO 2)	40% 60% Total 100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Portfolio (LO's 1, 2 & 3)	Total 100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by Marianne Readman Date: 18/05/19	**Approved by**: James McCauley Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD2321	**MODULE TITLE:** Marine Biology and Environmental Management

CREDITS: 20	**FHEQ LEVEL:** 5	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
This module investigates the key concepts specific to marine ecosystems and their management in the UK and globally. A diverse range of marine habitats will be examined as will contemporary environmental issues such as exploitation and pollution to preserve biodiversity for future generations.

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ELEMENTS OF ASSESSMENT

COURSEWORK		PRACTICAL	
C1	70%	**P1**	30%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies.

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
To discuss the components that comprise a range of marine ecosystems and explore the population dynamics that exist within them. To critically reflect on historic and current marine environmental management practice as an effective stratagem for conservation of biodiversity. To disseminate the influence of mankind on marine habitats and rationalise the impact of contemporary issues on marine environments. To develop effective sampling techniques for utilisation of research in marine environments.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Demonstrate awareness of a variety of marine habitats and explain the complex ecosystems they support.
2. Identify and propose strategies to preserve biodiversity and to re-establish ecosystems within marine environments.
3. Appraise current literature and critically analyse the effects of human influence on the marine environment.
4. Define and clarify research methodologies to perform practical analysis of marine habitats.

DATE OF APPROVAL: 06/03/09	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 01/09/09	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** AY

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** 111

MODULE LEADER: Andrea Gaion	**OTHER MODULE STAFF:**

Summary of Module Content
This will include: Marine ecosystems; temperature shores; estuaries and coastal systems; ocean biology; aquatic pollution and management; coastal zone management; coastal and marine survey and monitoring; fishery biology; marine microbiology; environmental impact assessment; environmental management issues; human influence; marine environmental anthropology; safeguarding water quality; contemporary issues in marine environmental biology; research techniques.

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lecturers/seminars	37.5	2.5 hours per week for 15 weeks
External visits	16	Two full day visits
Field work	16	Two full days
Guided independent study	130.5	Two hours per week for 15 weeks
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Coursework	C1	Structured written report	100%	Based on a named ecosystem, 3000 words. LO1, LO2, LO4.
Practical	P1	Oral presentation	100%	15 minutes (20 with Q&A) LO3

Updated by: Andrea Gaion Date: 18/05/19	**Approved by**: Marianne Readman Date: 29/05/19

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD2217	**MODULE TITLE:** Biodiversity and Speciation

CREDITS: 20	**FHEQ LEVEL:** 5	**JACS CODE:** D300

PRE-REQUISITES: N/A	**CO-REQUISITES:** N/A	**COMPENSATABLE:** Yes

SHORT MODULE DESCRIPTOR:
This module introduces biodiversity. It examines the classification and diversity of the major groups or organisms, examining their varied biology and ecological roles. The module will also examine the distribution and variation of these organisms on a global scale as well as temporal changes in biodiversity. It will look in details at the ecological mechanisms behind speciation.

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ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COURSEWORK	
T1 (In-Class Test)	40%	**C1**	60%

SUBJECT ASSESSMENT PANEL Group to which module should be linked:
Environment and Land Based Studies

Professional body minimum pass mark requirement: N/A

MODULE AIMS:
The aim of this module is to provide a brief introduction to the major groups of organisms and their spatial and temporal diversity across the globe. The module also aims to provide an understanding of the mechanism of speciation and evolution and the influence of genetics on this process.

ASSESSED LEARNING OUTCOMES: (additional guidance below)
At the end of the module the learner will be expected to be able to:

1. Critically analyse the key spatial and temporal patterns of biodiversity
2. Analyse the significance of genetic variation to the process of natural selection
3. Develop awareness of population genetics, microevolution and speciation.
4. Show awareness of the biodiversity of major groups of organisms.

DATE OF APPROVAL: 10/02/10	**FACULTY/OFFICE:** AP
DATE OF IMPLEMENTATION: 09/2011	**SCHOOL/PARTNER:** South Devon College
DATE(S) OF APPROVED CHANGE: N/A	**TERM:** 11/AY/AU/M

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2019/20	**NATIONAL COST CENTRE:** D

MODULE LEADER: Matt Rossin	**OTHER MODULE STAFF:**

Summary of Module Content
Scales of biodiversity (genetic to organism level). Classification. Spatial distribution and changes of biodiversity and biomes. Biodiversity within key plant and animal groups. Population and evolutionary genetics: Speciation. Macroevolution

SUMMARY OF TEACHING AND LEARNING		
Activities	**Hours**	**Comments/Additional Information**
Scheduled Lectures	33	1.5 hours per session
Practical classes and workshops	4.5	Cladistics task (1.5 hours) Molecular Clocks analysis (1.5 hours) Patterns of biodiversity (1.5 hours)
Scheduled Tutorials	2.5	Group and one-to-one sessions for assignment and learning support.
Guided independent study	160	Directed weekly reading, web-based tasks and reading, and assessment development/revision
Total	**200**	

Category	***Element***	***Component Name***	***Component weighting***	***Comments*** *Include links to learning objectives*
Written Exam	T1	In-Class Test	100%	1.5 hours. LO3, LO4.
Coursework	C1	Essay	100%	2500 words. LO1, LO2

Updated by: Matt Rossin Date: 20/05/19	**Approved by**: Marianne Readman Date: 29/05/19