

ACADEMIC PARTNERSHIPS PROGRAMME QUALITY HANDBOOK 2021-22

FdSc Animal Conservation

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Welcome and Introduction

Welcome to FdSc Animal Conservation delivered at North Devon Campus by Petroc.

This degree gives students the knowledge and practical skills to be competent in a wide range of fundamental conservation skills from animal health to zoo conservation techniques. During this course we will make use of the surrounding areas, involving students in practical conservation activities in the diverse range of habitats we are fortunate enough to have on our doorstep in North Devon.

Students studying the FdSc Animal Conservation will engage in a variety of meaningful ecological and zoological work in the field, enabling them to gain real work-based competencies. The course will also provide students a sound understanding of the ecological and biological principles that underpin animal conservation.

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.

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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 University Student Institution Handbook which contains student support based information on issues such as finance and studying at HE available at: https://mv.petroc.ac.uk/moodle/moodle 3/course/view.php?id=3059
- Your Module Guide available at: https://my.petroc.ac.uk/moodle/moodle 3/course/view.php?id=1746
- Your University of Plymouth Student Handbook available at: https://www.plymouth.ac.uk/your-university/governance/student-handbook

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Programme Specification

Below are the overarching details of the course:

Awarding Institution: University of Plymouth

Partner Institution: Petroc Accrediting Body: N/A Language of Study: English

Mode of Study: Full and Part Time

Final Award: FdSc Animal Conservation

Intermediate Award: None

Programme Title: Animal Conservation

UCAS Code: D3H8 JACS Code: C990

Benchmarks: Informed by the QAA Benchmark for Biosciences and the

Foundation Degree Qualification Benchmark

Date of Programme Approval: 2015

The Programme will deliver:

- 1. A range of exercises to enable students to develop transferable skills, work effectively in teams and with outside agencies, and develop an adaptable, flexible and reflective approach to study and work.
- 2. An appreciation of the complexity and diversity of life processes and react to their study in sensitive and appropriate ways, encompassing ethical and safe processes and competencies.
- 3. Personal and professional development, furthering students' knowledge and understanding of a broad based core covering the major elements of animal conservation to include the critical analysis of current and relevant literature and practice.
- 4. A pathway which develops the student's ability to understand and gather information and data within a theoretical framework accompanied by critical analysis and assessment, including data analysis and statistics.
- 5. Students who gradually develop as autonomous lifelong learners with a sense of study and enquiry, and the ability to comprehend and contextualise continuing change as part of an ongoing programme of continuing professional development and the applicability of their subject to their eventual career.
- 6. The development of key intellectual, cognitive, numeracy, practical and research skills, and competence in practical research and experimental skills.

Programme Intended Learning Outcomes (ILO)

Intended learning outcomes have been drawn up using QAA Benchmark Statements for Biosciences, as well as being informed by the Foundation Degree qualification benchmark.

By the end of this programme, students will be able to:

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Development of Knowledge and Understanding

Knowledge and understanding

- K1. Demonstrate up-to date knowledge and understanding of Animal Behaviour, Welfare, Conservation and Management accompanied by critical analysis and evaluation.
- K2. Identify, explain and apply major concepts including population processes, dynamics and interactions, and evolutionary factors.
- K3. Understand the applicability of the subject to the development of knowledge and practice in the field of Animal Conservation.

Cognitive and intellectual skills

- C1. Recognise and apply theories, paradigms, concepts and principles.
- C2. Analyse, synthesise and summarise information critically to integrate evidence, formulate and test hypotheses.
- C3. Recognise and understand the moral, safety and ethical issues of investigation and research, appreciating the need for ethical standards and professional codes of conduct.

Key transferable skills

- T1. Demonstrate competency in communication via a range of methods and an appropriate level of numeracy, literacy, IT literacy and field and laboratory skills.
- T2. Identify individual and collective goals and responsibilities, evidencing the ability to recognise and respect the views of others and effectively work as part of a team.
- T3. Competency in field, practical and laboratory skills and present and evaluate information in numerical or statistical form

Practical and employment skills

- P1. Work in groups as a participant who contributes effectively to the group's task.
- P2. Work independently with decreasing levels of supervision and increasing levels of autonomy, setting objectives and taking responsibility for learning.
- P3. To have undertaken sufficient practical work to ensure competence in the basic experimental skills and recognise and appreciate the importance of risk assessment, relevant health and safety regulations and procedures for ethical and sensitive research and field work.
- P4. To have undertaken Work Based Learning and had meaningful contact with outside agencies, providers and/or employers.

Progression:

BSc (Hons) Animal Behaviour and Welfare

https://www.plymouth.ac.uk/courses/undergraduate/bsc-animal-behaviour-and-welfare

BSc (Hons) Conservation Biology

https://www.plymouth.ac.uk/courses/undergraduate/bsc-conservation-biology

BSc (Hons) Zoology https://www.plymouth.ac.uk/courses/undergraduate/bsc-zoology

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Programme Structure

The following structure diagram(s) provides the current structure for this programme:

FHEQ Level: 4 For: Animal Conservation (Full Time) 5323				
F/T Route Year / Core or Option Credits Module Module		Module		
1) Semester 1 (AU)	Core	20	NORD1076 Animal Anatomy and Physiology	
1) Semester 2 (SP)	Core	20	NORD1077 Animal Behaviour	
1) All year	Core	20	NORD1078 Ecology and Conservation	
1) All year	Core	20	NORD1079 Developing Graduate Skills	
1) Semester 2 (SP)	Core	20	NORD1080 Animal Health and Disease	
1) Semester 1 (AU)	Core	20	NORD1081 Zoological Conservation	

FHEQ Level: 5 For: Animal Conservation (Full Time)				
F/T Route Year / Core or Option Credits Semester Module		Credits	Module	
2) All year	Core	20	NORD2077 Practical Conservation Skills	
2) Semester 1 (AU)	Core	20	NORD2082 Wildlife Management and Rehabilitation	
2) Semester 1 (AU)	Core	20	NORD2078 Marine Animal Biology and Conservation	
2) Semester 2 (SP)	Core	20	NORD2080 Applied Zoological Science	
2) Semester 2 (SP)	Core	20	PETR2101 Behavioural Ecology	
2) All year	Core	20	PETR2102 Experimental Design and Analysis	

FHEQ Level: 4 For: Animal Conservation (Part Time) 5324				
P/T Route Year / Semester			Module	
1) Semester 1 (AU)	Core	20	NORD1076 Animal Anatomy and Physiology	
1) Semester 2 (SP)	Core	20	NORD1077 Animal Behaviour	
1) All year	Core	20	NORD1078 Ecology and Conservation	
1) All year	Core	20	NORD1079 Developing Graduate Skills	
2) Semester 2 (SP)	Core	20	NORD1080 Animal Health and Disease	
2) Semester 1 (AU)	Core	20	NORD1081 Zoological Conservation	

FHEQ Level: 5 For: Animal Conservation (Part Time)				
P/T Route Year / Core or Semester Option Module		Credits	Module	
2) All year Core		20	NORD2077 Practical Conservation Skills	
2) Semester 1 (AU)	Core	20	NORD2082 Wildlife Management and Rehabilitation	
3) Semester 1 (AU)	Core	20	NORD2078 Marine Animal Biology and Conservation	
3) Semester 2 (SP)	Core	20	NORD2080 Applied Zoological Science	
3) Semester 2 (SP) Core 3) All year Core		20	PETR2101 Behavioural Ecology	
		20	PETR2102 Experimental Design and Analysis	

Module Records

<u>SECTION A: DEFINITIVE MODULE RECORD.</u> Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

01076 MODULE TITL	E: Animal Anatomy & Physiology			
FHEQ Level: 4	JACS CODE: D300			
CO-REQUISITES: None	COMPENSATABLE: Y			
	FHEQ Level: 4			

SHORT MODULE DESCRIPTOR: (max 425 characters)

This module provides underpinning knowledge for other modules, developing the student's knowledge and understanding of the structure, functioning and maintenance of the animal's body. Support and movement, body transport systems, acquisition of materials, removal of waste, and reproduction are all investigated and their roles are examined in maintaining the overall organism.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]						
WRITTEN EXA	MINATION	COURSEWORK		PRAC	CTICAL	
E1	E1 0% C1 (Coursework) 100%		P1	0%		
(Examination)				(Practical)		
E2 (Clinical	0%	A1 (Generic	0%			
Examination)		Assessment)				
T1 (Test)	0%					

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Animal

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

To provide an understanding of the general structure of the skeleton, types of bone, structure, function and contraction of different types of muscle, different types of joints and movements. Students will explore composition and functions of blood, structure of the cardiovascular system, transport of materials around the body, structure and function of the lymphatic system. Further study will include the structure of the respiratory, digestive and urinary systems, movement of respiratory gases into, around and out of the body, digestive system functioning, kidney function, its role in homeostasis and the role of the central and peripheral nervous system and of the endocrine system.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Examine the means by which support and movement are achieved in animal bodies.
- 2. Demonstrate a broad understanding of body transport systems.
- 3. Demonstrate awareness of the basic structures and functioning of the major physiological systems in a range of species.

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	09/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	Semester 1 (AU)

Additional notes (for office use only):

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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. <u>Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students.</u> Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021/22	NATIONAL COST CENTRE: 112
MODULE LEADER: Leitza Gorman	OTHER MODULE STAFF:

SUMMARY OF MODULE CONTENT

Students will achieve their learning outcomes through participation in lectures, seminars, demonstrations and integrated laboratory practical's. Tutorials will be used to consolidate and expand information delivered in lectures and practical classes. The module is designed to give students a thorough underpinning knowledge of animal structures and body systems, and how they are coordinated to enable homeostasis and identify principles and concepts of effective management in a range of species.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Scheduled Activities	Hours Comments/Additional Information			
Lectures	38	This will include student presentations and		
		formative assessment.		
Practical classes	10	Animal dissection- 2 successive sessions to prevent long term storage of dissected material. Histology sessions would be formatively assessed, to include the completion of a workbook, including drawings on a cellular level.		
Guided Independent study	152	Students should explore areas of interest and find current research publications		
Total	<u>200</u>	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)		

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
			0%	
	E <u>.</u>		Total=	
Written			100%	
exam	_		0%	
	T		Total =	
			100%	
Coursework	C 1	Lab book (combined with laboratory practical) Presentation	100%	Learning outcomes123
Practical	P1	Laboratory practical	Pass/Fail	LO3

ſ	Updated by:	Date:	Approved by:	Date:
	Stacey Tanton	15/05/2020	Stacey Tanton	15/05/2020

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Done, S. Goody, P. Evans, S. Stickland, N. (2009) *Colour Atlas of Veterinary Anatomy*, Volume 3, The Dog and Cat. Mosby

Dyce, K. Wolfgang, O. Wensing, C. (2009) *Textbook of Veterinary Anatomy*. Fourth Edition. Saunders

Frandson, R. Wilke, W. Dee Fails, A. (2009). *Anatomy and physiology of farm animals.* Philadelphia, USA: Lea and Febiger.

Hill, R. Wyse, G. Anderson, M. (2012) Animal Physiology. Sunderland: Sinauer Associates

Reece, W. (2009) Functional Anatomy & Physiology of Domestic Animals. Oxford: Wiley-Blackwell

Rees, P. (2011) An Introduction to Zoo Biology and Management. Oxford: Wiley-Blackwell

<u>SECTION A: DEFINITIVE MODULE RECORD.</u> Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: NORD1077	MODULE TITLE:	Animal Behaviour
CREDITS: 20	FHEQ Level: 4	JACS CODE: D390
PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR: (max 425 characters)

The module focuses on the explanation of behaviour in relation to function, causation, development and evolution, along with the concept of genes for behaviour.

Students will explore the development of behaviour from embryo to adult involves a continual interaction between the animal's genes and its environment.

Students will learn how to observe and record animal behaviour and how to summarise and present data.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]					
WRITTEN EXAMINATION		COURSEWORK		PRACTICAL	
E1	0%	C1	70%	P1	30%
(Examination)	ļ	(Coursework)		(Practical)	
E2 (Clinical	0%	A1 (Generic	0%		
Examination)		Assessment)			
T1 (Test)	0%				

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

To introduce the student to the fundamental principles underlying animal behaviour. The module will introduce the notion that there are several levels of explanation of an animal's behaviour (Tinbergen's four questions). From here proximate and ultimate explanations will be developed so that the student understands behaviour in terms of genes and evolution and learning and environmental feedback. In addition, students will be taught how to observe and record the behaviour of animals from a wide range of taxonomic groups and how to calculate and present summary statistics of their observations.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Demonstrate an understanding of the mechanisms of evolution, and the role of genetics in the context of animal behaviour
- 2. Demonstrate a broad understanding of the four levels of explanation of behaviour.
- 3. Recognise the basic principles of behavioural ecology, demonstrating a broad understanding of how behaviour develops
- 4. Record simple behavioural patterns, processing, interpreting and presenting statistics and appropriate data.

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	09/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	Semester 2 (SP)

Additional notes (for office use only):

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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. <u>Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students.</u> Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE: 112
MODULE LEADER: Samuel Chigoneka	OTHER MODULE STAFF: Leitza Gorman

SUMMARY OF MODULE CONTENT

This unit will focus on <u>Tinbergen's four questions</u> – essentially, the explanation of behaviour in relation to function, causation, development and evolutionary history.

<u>The survival value (or function) of behaviour</u> - Here the basic principles of behavioural ecology will be introduced along with the concept of 'genes for behaviour'.

<u>The development of behaviour</u> - How the development of behaviour from embryo to adult involves a continual interaction between the animal's genetic make-up and its environment.

Learning theory - Essentials of classical and instrumental conditioning will be introduced.

Recording behaviour - How to observe and record animal behaviour.

Summary statistics and data presentation - How to summarise and present data in a clear manner.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]					
Scheduled Activities	Hours	Comments/Additional Information			
Lectures	38	Students will review animal behaviour, with reference to genetics, development, situation, learning theories and evolution as a whole. Each student will receive approx. 20 minutes 1:1 tuition.			
Practical's	10	Ethograms will be introduced and their effective use will be embedded to enable useful data collection, and then analysis			
Private study/assignments	152	Students will be encouraged to engage in wider reading and current and seminal research			
Total	<u>200</u>	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)			

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E <u>I</u>		% Total = 100%	
exam	T <u>II</u>		% Total = 100%	
Coursew ork	C1	Coursework	100% Total = 100%	LO1, 2, 3
Practical	P 1	Presentation	100% Total= 100%	LO4

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Approved by:

Date:

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Updated by:

 Megan Kavanagh
 07/09/2021
 Stacey Tanton
 07/09/2021

Recommended Texts and Sources:

Alcock, J. (2013) Animal Behaviour: An Evolutionary Approach. Sunderland: Sinauer Associates.

Krebs, J. Davies, N. West, S. (2012) *An introduction to behavioural ecology* (4th edition). Oxford, Blackwells.

Manning A. Stamp Dawkins, M.S. (2012) *An Introduction to Animal Behaviour*. Cambridge: Cambridge University Press.

Martin, P. Bateson, P. (2007) *Measuring Behaviour: An Introductory Guide*. Cambridge: Cambridge University Press.

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<u>SECTION A: DEFINITIVE MODULE RECORD.</u> Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: NORD1078	MODULE TITLE:	Ecology and Conservation
CREDITS: 20	FHEQ Level: 4	JACS CODE: C184
PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Yes

SHORT MODULE DESCRIPTOR: (max 425 characters)

The module covers evolutionary theories, mechanisms of evolution, and the consequent impacts this has upon our understanding of ecology. Human and wildlife interaction is also reviewed. The nature of ecosystems and the populations within them will be reviewed in theory and in practice with students engaging in field work to gather appropriate data. National and international conservation strategies will be discussed.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]						
WRITTEN EXAMINATION		COURSEWORK		PR/	PRACTICAL	
E1	0%	C1	100 %	P1	0%	
(Examination)		(Coursework)		(Practical)		
E2 (Clinical	0%	A1 (Generic	0%			
Examination)		Assessment)				
T1 (Test)	0%					

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Ecology & Conservation

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

The module aims to develop an understanding of ecological and conservation principles to enable students to understand core concepts including changes in global ecosystems, national and international conservation strategies, population dynamics and wildlife and human interaction. The module will also introduce basic field study work and include field work in a range of habitats.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Demonstrate a broad understanding of ecosystems and their dynamic nature, exploring the mechanisms and ecological implications of evolution.
- 2. Analyse human and wildlife interaction and to identify and explain factors affecting population dynamics
- 3. Identify and evaluate conservation strategies for wildlife and their habitats

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	All year

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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. <u>Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students.</u> Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE:	112
MODULE LEADER: Leitza Gorman	OTHER MODULE STAFF:	

SUMMARY OF MODULE CONTENT

Students will explore a broad range of ecosystems and biomes and their dynamic nature, exploring the mechanisms and ecological implications of evolution such as climate change. Biogeochemical pathways will be explored, as will evolutionary mechanisms that enable animals to adapt to the dynamic nature of ecosystems. Human and wildlife interactions will be reviewed, including dynamics between different users, and the habitats, such as at Torrington common. This will include population dynamics, boom bust principle, and resource availability. Conservation strategies for wildlife and their habitats will be practically demonstrated and developed upon both in lesson time, and it is expected in the students own time as this will give them an opportunity to arrange extra field survey experience with local organisations.

SUMMARY OF TEAC	SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Scheduled Activities	Hours	Comments/Additional Information			
Lectures	16	Students will be taught about the functioning of ecosystems, from the concepts of habitats, populations to ecosystems and biomes. This will be related to both local and global concepts and examples.			
Practical	32	Site visits and data gathering will be used to establish these core concepts and to enable students to apply theory to practise, as well as the analysis of ongoing conservation work and its strengths and limitations. This will include both formative and summative assessment			
Private study/assignments	152	Students will be expect to read widely around the concepts discussed in class, and to spend their own time developing practical techniques as well as data analysis and understanding via the use of the VLE.			
Total	200	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)			

		t	t t	
Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E_		% Total = 100%	
exam	Т		% Total = 100%	
Coursework	C 1	Case study write up Report	70% 30% Total = 100%	LO1-2 LO3
Practical	P1		Pass/Fail	LO3 – field work in groups

Updated by:	Date:	Approved by:	Date:
Megan Kavanagh	07/09/2021	Stacey Tanton	07/09/2021

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Begon, M. Townsed, C. Harper, J. (2006) *Ecology: from Individuals to Ecosystems*. Oxford: John Wiley & Sons.

Hambler, C. Canney, S. (2013) Conservation. Cambridge: Cambridge University Press

Carson, R. (2000) Silent Spring London: Penguin Classics.

Fryxell, J. Sinclair, A. Caughley, G. (2014) *Wildlife Ecology, Conservation and Management.* Oxford: Wiley-Blackwell.

<u>SECTION A: DEFINITIVE MODULE RECORD.</u> Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: NORD1079	MODULE TITLE: D	eveloping Graduate Skills
CREDITS: 20	FHEQ Level: 4	JACS CODE: X220
PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: N

SHORT MODULE DESCRIPTOR: (max 425 characters)

This module is designed to enable students to demonstrate that they have all the qualities and transferable skills necessary for appropriate academic work and employment requiring the exercise of responsibility and decision making, including the ability to relate their professional practice to underlying theory and principles

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]							
WRITTEN EXAMINATION		COURSEWORK		PRACTICAL			
E1	0%	C1	100%	P1	0%		
(Examination)		(Coursework)		(Practical)			
E2 (Clinical	0%	A1 (Generic	0%				
Examination)		Assessment)					
T1 (Test)	0%						

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Science

Professional body minimum pass mark requirement: N/A

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.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Plan for, reflect upon and demonstrate with evidence from own practice the ability to work independently and in a team, using effective communication skills.
- 2. Undertake a minimum of 50 hours of work experience within a suitable setting
- 3. Demonstrate how relevant theoretical perspectives have informed and enhanced your practical experience and/or knowledge within your subject area.
- 4. Evaluate weaknesses and strengths in relation to experiential learning, reflecting upon fulfilling potential roles within the work place/organisation and planning for the development of skills towards career goals.

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	All year

Additional notes (for office use only):

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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. <u>Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students.</u> Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE: 112
MODULE LEADER: Leitza Gorman	OTHER MODULE STAFF:

SUMMARY OF MODULE CONTENT

Good graduate skills are essential in today's competitive society. The developing graduate skills module helps build and polish these skills. Time management, reflection, research, planning and organisation, communication, and studying are just some of the skills covered. This module also includes an extensive library induction facilitated by one of our specialist librarians, helping students develop excellent research and referencing skills, and provides training on the extremely useful Plymouth University Portal. Workshops are provided on CV writing, self-assessment auditing, mini skills presentations, lesson planning academic writing and referencing. The development of critical thinking and communication skills are furthered through discussions and debates on topical subjects relevant to animal conservation.

SUMMARY OF TEACHING AND I	SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]					
Scheduled Activities	Hours	Comments/Additional Information				
Lectures	48	Students will engage in a range of developmental workshops including: self-reflection, note taking, critical thinking, writing & presentation skills, SWOT analysis,				
Work Based Learning	50	The students are to identify, organise, complete and enable the authentication of 50 hours of work experience, this is a pass/fail element				
Private study/assignments	102	Students will be expected to reflect upon their own experiences using the tools given to them during the formal delivery of the lectures				
Total	200	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)				

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E		% Total = 100%	
exam	T_		% Total = 100%	
Coursework	C1	Reflective account	100% Total= 100%	LO1, 3, 4
Practical	P_	50 hours work experience	Pass/Fail	LO2

Updated by:	Date:	Approved by:	Date:
Stacey Tanton	15/05/2020	Stacey Tanton	15/05/2020

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Bolton,G. (2005). Reflective Practice: Writing and Professional Development. 2nd ed. London: SAGE

Cottrell, S (2013) The Study Skills Handbook, London: Palgrave

Creme, P, Lea, M (2008) Writing at University: A Guide for Students. 3rd ed. Maidenhead: Open University Press

Pears, R, Shields, G. (2008) Cite *Them Right: The Essential Referencing Guide.* new ed. Newcastle upon Tyne: Pear Tree Books

Wyers, J, Reed, R. and Jones, A. (2012), Practical Skills in Biology. London: Pearson

<u>SECTION A: DEFINITIVE MODULE RECORD.</u> Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: NORD1080	MODULE TITLE:	Animal Health and Disease
CREDITS: 20	FHEQ Level: 4	JACS CODE: D320
PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR: (max 425 characters)

The module will review regional, national and global factors affecting the health of wild and domestic species, disease transmission, causal agents and the interventions required to manage the risk of contracting and spreading disease. Students will further their understanding of the mechanisms of disease and immunity and how these can be adjusted and manipulated to maintain animal health.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]							
WRITTEN EXAMINATION		COURSEWORK		PRACTICAL			
E1	30 %	C1	70 %	P1	0%		
(Examination)		(Coursework)		(Practical)			
E2 (Clinical	0%	A1 (Generic	0%				
Examination)		Assessment)					
T1 (Test)	0%						

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

To highlight the relationship between the environment and disease, including husbandry and animal management techniques used, and the mechanisms host animal immune systems engage. To broaden appreciation of the complexity of the disease process and the relationship between the host and the infective agent, investigating preventative and control methods.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Explain the effect of husbandry on animal health, demonstrating an awareness of causative agents and routes of transmission for disease, identifying methods for control and prevention in the context of husbandry.
- 2. Describe and explain the role of the immune system in animals
- 3. Demonstrate a broad understanding of the nature and process of disease, and the relationship between the host and the infective agent.

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	09/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	Semester 2 (SP)

Additional	notes	(for	office	LISE	only	/	٠
Additional	110163	UUI	OHICE	usc	OHILL	' 1	

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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. <u>Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students.</u> Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE: 112
MODULE LEADER: Leitza Gorman	OTHER MODULE STAFF:

SUMMARY OF MODULE CONTENT

Animal husbandry and other causal factors influencing health and disease will be investigated, alongside the transmission, control and prevention of disease. The role of the immune system will be investigated for a range of wild and domestic species, and how this impact upon the transmission, control and prevention of disease. The relationship between host and agent will be reviewed to enable students to identify and evaluate improvements to animal health and welfare.

SUMMARY OF TEACHING AND LE	SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Scheduled Activities	Hours	Comments/Additional Information			
Lectures	38	Lectures will focus on the core understanding of disease, methods of transmission, and preventative and control mechanisms			
Practical's	10	Laboratory work will further develop students understanding, but will also focus on the spread of disease, and the conditions which enable this.			
Private study/assignments	152	Students will be expect to read widely around the concepts discussed in class, and to spend their own time developing practical techniques as well as data analysis and understanding via the use of the VLE.			
Total	200	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)			

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E <u>1</u>	Examination	100% Total = 100%	LO1, 2, 3
exam	T <u>I</u>		% Total = 100%	
Coursework	C1	Academic Poster	100% Total = 100%	LO2,3
Practical	P		% Total = 100%	

Updated by:	Date:	Approved by:	Date:			
Stacey Tanton	15/05/2020	Stacey Tanton	15/05/2020			
Recommended Texts and Sources:						

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Boden, E. (2007) Black's Student Veterinary Dictionary. London: A & C Black Publishers Ltd

Cooper, B. Mullineaux, E. (2011) *BSAVA Textbook of Veterinary Nursing*. Quedgeley: British Small Animal Veterinary Association

Day, M. Schultz, R. (2014) *Veterinary Immunology: Principles and Practice*, Second Edition. Boca Raton: CRC Press

Ettinger, S. (2005). *Textbook of veterinary internal medicine: diseases of dog and cat.* Elsevier: WB Saunders.

Hall, A. Yates, C. (2010) *Immunology (Fundamentals of Biomedical Science)*. Oxford: Oxford University Press

Botzler, R. Brown, R. (2014) Foundations of Wildlife Diseases. University of California Press

<u>SECTION A: DEFINITIVE MODULE RECORD.</u> Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: NORD1081	MODULE TITLE:	Zoological Conservation
CREDITS: 20	FHEQ Level: 4	JACS CODE: C184
PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Yes

SHORT MODULE DESCRIPTOR: (max 425 characters)

This module focuses on the roles of zoo conservation, and how this is undertaken, as well as considering the ethical, legal and ecological factors involved. Zoo animal husbandry & behaviour is analysed in light of conservation and welfare. The module will incorporate zoological data to review breeding programmes, their coordination and their success.

ELE	ELEMENTS OF ASSESSMENT Use HESA KIS definitions]						
W	RITTEN EX	KAMINATION	COURSEWORK		PR/	ACTICAL	
E1		0%	C1 70 %		P1	30%	
(Exa	mination)		(Coursework)		(Practical)		
E2 (Clinical	0%	A1 (Generic 0%				
Exar	mination)		Assessment)				
T1 (Test)	0%					

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

The module aims to develop an understanding the core zoological conservation principles to enable students to understand core concepts including conservation, ethics, legislation and in-situ and exsitu conservation. Students understanding of the dynamic between behaviour and conservation will be reviewed so as to better comprehend the factors affecting zoo animal behaviour, and the implications of this. Students will also use data from captive breeding programmes to review the process and its effectiveness, including ethics, genetics and biodiversity.

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 roles of zoological conservation including legal, ethical and ecological factors
- 2. Demonstrate awareness of the relationship between zoo animal welfare & behaviour and conservation
- 3. Analyse zoo conservation data to review breeding programmes

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	Semester 1 (AU)

Additional	notes	(for	office	LISE	onl	v)	١.
Additional	110163	(IOI	UIIICC	usc	OHI	v	

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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. <u>Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students.</u> Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE: 112
MODULE LEADER: Leitza Gorman	OTHER MODULE STAFF:

SUMMARY OF MODULE CONTENT

Zoo conservation is a key tool for the conservation of endangered species, and raising the profile of conservation issues. The module will review the purpose of zoos and how they seek to conserve and benefit endangered species, predominantly in-situ, with ex-situ conservation of habitats and species also reviewed. Research into this will enable students to develop a solid understanding of the working processes of a zoo as an organisation.

OLIMANA DV. OF TEAC	A A A A A A A A A A A A A A A A A A A	LEADNING III LIEGA KIO Jaffarra
		LEARNING [Use HESA KIS definitions]
Scheduled Activities	Hours	Comments/Additional Information
Lectures	32	Lectures will focus on ethical debates regarding the roles of modern zoos, and the suitability of these roles. The methods zoos use for improving wild captive species welfare as well as breeding programmes will also be reviewed, analysed, critiqued and developed using BIAZA accredited establishments as case studies and visits
Practical's	16	Visits to local BIAZA accredited zoos will provide a basis for applying theory to practice, as well as critiquing techniques in place.
Private study/assignments	152	Students will be expect to read widely around the concepts discussed in class, and to spend their own time developing practical techniques as well as data analysis and understanding via the use of the VLE.
Total	<u>200</u>	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E <u>II</u>		% Total = 100%	
exam	T		% Total = 100%	
Coursew ork	C1	Report	100% Total = 100%	LO2, 3
Practical	P1	Presentation	100% Total = 100%	LO1

Updated by:	Date:	Approved by:	15/05/2020
Stacey Tanton	15/05/2020	Stacey Tanton	

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Hosey, G. Melfi, V. Pankhurst, S. (2013) *Zoo Animals: Behaviour, Management and Welfare.* Oxford: Oxford University Press

Kleiman, D. Thompson, K. Kirk Baer, C. (2013) *Wild Mammals in Captivity: Principles and Techniques for Zoo Management*, Second Edition. Chicago: University of Chicago Press

Maple, T. Shepherdson, D. Mellen, J. Hutchins, M. (1999) *Second Nature: Environmental Enrichment for Captive Animals*. Smithsonian Books.

Rees, P. (2011) An Introduction to Zoo Biology and Management. Oxford: Wiley-Blackwell

Young, R. (2003) Environmental Enrichment for Captive Animals. Wheathampstead: UFAW

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: NORD2077	MODULE TITLE:	Practical Conservation Skills
CREDITS: 20	FHEQ Level: 5	JACS CODE: C184
PRE-REQUISITES: None	CO-REQUISITES:	COMPENSATABLE: Yes
	None	

SHORT MODULE DESCRIPTOR: (max 425 characters)

The module aims to introduce students to the practices and principles of field studies of habitats and wildlife populations; this is to include practical sampling techniques for flora and fauna in a range of habitats, statistical analysis of this data, and evaluation of the results.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]						
WRITTEN EXAMINATION COUR		COURS	EWORK	PR/	ACTICAL	
E1	0%	C1	50%	P1	50%	
(Examination)		(Coursework)		(Practical)		
E2 (Clinical	0%	A1 (Generic	%			
Examination)		Assessment)				
T1 (Test)	0%					

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

The module aims to enable students to develop the ability to identify flora and fauna correctly; select appropriate sampling techniques and risk assess them, carry out those techniques correctly and produce a habitat survey report, including an evaluation. There will also be the intention where possible to review the data in relation to previous studies of the same habitat, on Lundy Island, Exmoor National Park, AONB or North Devon Biosphere.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Identify a range of flora and fauna correctly
- 2. Understand and apply survey techniques, making assessments of the risks, and collect data in groups effectively.
- 3. Interpret habitat survey data
- 4. Make critical recommendations as a result of interpreting habitat survey data

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	All year

Additional notes (for office use only)	Additional	notes	(for	office	use	only	V)):
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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a quide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE: 112		

MODULE LEADER: Leitza Gorman OTHER MODULE STAFF:

SUMMARY OF MODULE CONTENT

The module will enable students to develop a core understanding of species, their habitats and the survey techniques used to gather data. Data analysis techniques will also be taught and applied, with students making recommendations and predictions regarding the wildlife populations they have surveyed. Where possible, this will form part of longer term surveys carried out at a range of sites locally.

SUMMARY OF TEACHING AN	SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Scheduled Activities	Hours	Comments/Additional Information			
Lectures	20	Lectures will include an introduction to the reasons behind field work, identification workshops, risk assessments, data collection and data analysis. Journals will also be reviewed and critiqued			
Practical's	28	Field work, habitat management and habitat sampling techniques			
Private study/assignments	152	Students will be expected to reflect upon their own experiences using the tools given to them during the formal delivery of the lectures			
Total	200	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)			

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E <u>ll</u>		0% Total = 100%	
exam	T∐		% Total = 100%	
Coursew ork	C1	Field report	100% Total = 100%	LO3, 4
Practical	P1	Field Survey	100% Total = 100%	LO1, 2

Updated by: Megan Kavanagh	Date: 07/09/2021	Approved by: Stacey Tanton	Date: 07/09/2021

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Ausden, M. (2007) *Habitat management for conservation: a handbook of techniques*. Oxford: Oxford University Press.

Begon, M. Townsend, C. Harper, J. (2006) *Ecology: From Individuals to Ecosystems*. 4th Edition. Oxford: Blackwell.

Sutherland, W. (2006) *Ecological Census Techniques: A Handbook*. Cambridge University Press

Wheater, C. Bell, J. Cook, P. (2011) Practical Field Ecology. Oxford: Wiley-Blackwell

<u>SECTION A: DEFINITIVE MODULE RECORD.</u> Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: NORD2078	MODULE TITLE:	Marine Animal Biology & Conservation	
CREDITS: 20	FHEQ Level: 5	JACS CODE: C184	
PRE-REQUISITES: None	CO-REQUISITES:	COMPENSATABLE: Yes	
	None		

SHORT MODULE DESCRIPTOR: (max 425 characters)

The module focuses on the variety of marine fauna, their biology and their conservation. The unit will identify the evolutionary pathways and classifications of marine animals, as well as current conservations threats and conservation measures which have been undertaken to protect and enhance habitats and species.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]						
WRITTEN EX	KAMINATION	COURSEWORK		PRACTICAL		
E1	0%	C1	100 %	P1	0%	
(Examination)		(Coursework)		(Practical)		
E2 (Clinical	0%	A1 (Generic	0%			
Examination)		Assessment)				
T1 (Test)	0%					

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

The module aims to develop an understanding and appreciation of the threats to habitats and species, and the action that is and can be taken to prevent and reduce harm and promote the ecosystems. The module will also review the evolution of marine animals and their classification, with correlations drawn between biology and conservation need.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Identify classification of marine fauna & flora
- 2. Analyse the impact of threats to ecosystems to the evolutionary adaptations of marine mammals
- 3. Review national and international conservation measures to protect marine ecosystems
- 4. Demonstrate an awareness of the political and economic factors affecting marine conservation measures

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	Semester 1 (AU)

Additional	notes	(for	office	use	only	y)):

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and <u>published on the extranet as a quide for prospective students.</u> Further details for current students should be provided in module quidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE: 112		

MODULE LEADER: Leitza Gorman OTHER MODULE STAFF:

SUMMARY OF MODULE CONTENT

The study of marine habitats provides a variety of different challenges to the study of terrestrial or freshwater species, this unit will enable students to explore these challenges in light of the biology of those species, specific threats to their habitats and the measures that are being taken nationally and globally to combat these threats. The Geo-political nature of protecting marine species will also be reviewed to highlight the impact of globalisation upon marine conservation.

SUMMARY OF TEACHING AN	SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Scheduled Activities	Hours	Comments/Additional Information			
Lectures	40	Evolutionary adaptations of marine species. Lectures will include guest speakers from local marine organisations			
Practical's	20	Will embed flora and fauna identification, as well as practical field work.			
Private study/assignments	140	Students will be expected to reflect upon their own experiences using the tools given to them during the formal delivery of the lectures			
Total	200	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)			

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E <u>I</u>		% Total = 100%	
exam	T <u>1</u>	Identification test	Pass/fail	LO1
Coursew ork	С		% Total = 100%	
Practical	P1	Academic Poster	100% Total = 100%	LO2, 3, 4

Updated by: Stacey Tanton	Date: 15/05/2020	Approved by: Stacey Tanton	Date: 15/05/2020

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Hoelzel, A. (2002) Marine Mammal Biology: An Evolutionary Approach. Oxford: Wiley Blackwell

Kaiser, M. Attrill, M. Jennings, S. Thomas, D. Barnes, D. Brierley, A. Hiddink, J. Kaartokallio, H. Polunin, C. Raffaelli, D. (2011) *Marine Ecology: Processes, Systems, and Impacts.* Oxford: Oxford University Press.

Levinton, J. (2010) Marine Biology: Function, Biodiversity, Ecology. Oxford: Oxford University Press.

<u>SECTION A: DEFINITIVE MODULE RECORD.</u> Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: PETR2101	MODULE TITLE:	Behavioural Ecology
CREDITS: 20	FHEQ Level: 5	JACS CODE: C180
PRE-REQUISITES: None	CO-REQUISITES:	COMPENSATABLE: Yes
	None	

SHORT MODULE DESCRIPTOR: (max 425 characters)

The module focuses on the evolution of animal behaviours, including adaptation, communication, feeding behaviour, mating behaviours, coping with predators adaptively, and reproductive tactics. Ecology of social behaviours is also covered. Where possible the lessons will involve observing wild animal behaviour to apply knowledge.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]							
WRITTEN EX	WRITTEN EXAMINATION		COURSEWORK		ACTICAL		
E1	0%	C1 100 %		P1	0%		
(Examination)		(Coursework)		(Practical)			
E2 (Clinical	0%	A1 (Generic	0%				
Examination)		Assessment)					
T1 (Test)	0%						

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

The module aims to develop an understanding and appreciation of the impact of a variety of factors on the evolution of a range of species. A variety of animal behavioural strategies will be reviewed as outlined in the module descriptor, and their evolution pathways and factors will be examined.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Evidence an understanding of the evolution of animal behaviours
- 2. Describe adaptive strategies that enable survival and reproduction
- 3. Review the costs and benefits of behaviour

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	Semester 2 (SP)

Additional notes	(for	office	use	only):
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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a quide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE: 112
MODULE LEADER: Leitza Gorman	OTHER MODULE STAFF:

SUMMARY of MODULE CONTENT

The module aims to develop an understanding and appreciation of the impact of a variety of factors on the evolution of a range of species. A variety of animal behavioural strategies will be reviewed as outlined in the module descriptor, and their evolution pathways and factors will be examined. Students will review a variety of case studies and have the opportunity to apply this during field trips.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Scheduled Activities	Hours	Comments/Additional Information		
Lectures	38	A range of lectures and activities will be arranged. Lectures will also include time for assessment workshops and 1:1 report guidance.		
Practical's	10	Field trips to observe animal behaviour. Student presentations which will be formatively assessed.		
Private study/assignments	152	Students will be expected to reflect upon their own experiences using the tools given to them during the formal delivery of the lectures		
Total	200	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)		

				·
Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E <u>I</u>		% Total = 100%	
exam	T		% Total = 100%	
Coursew ork	C1	Report	100% Total = 100%	LO1, 2, 3
Practical	P_		% Total = 100%	

Updated by:	Date:	Approved by:	Date:
Stacey Tanton	15/05/2020	Stacey Tanton	15/05/2020

University of Plymouth Academic Partnerships Programme Quality Handbook UK 21-22 Page **33** of **43**

Alcock, J (2013) Animal Behaviour: An Evolutionary Approach. Tenth Edition, Sunderland: Sinauer

Barnard, C. (2003) *Animal Behaviour: Mechanism, Development, Function & Evolution*. London: Prentice Hall.

Davies, N. Krebs, J. West, S. (2012) *An Introduction to Behavioural Ecology*. Fourth Edition. Oxford: Blackwell

Dugatkin, L. (2013) Principles of Animal Behaviour. New York: W. W. Norton & Company

Futuyma, D. (2009) Evolution, Sunderland: Sinauer Associates

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: NORD	2080 MODULE TITLE:	Applied Zoological Science
CREDITS: 20	FHEQ Level: 5	JACS CODE: C300
PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Yes

SHORT MODULE DESCRIPTOR: (max 425 characters)

Understanding the factors that affect wild captive species allows us to improve the welfare of these species. Students will develop their understanding of the physiological and behavioural needs of animals, subsequent challenges within a zoo environment, and the suitability of captive environments. Students will analyse the effectiveness of enrichment or other husbandry strategies used when keeping wild captive species.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]						
WRITTEN EX	WRITTEN EXAMINATION		COURSEWORK		ACTICAL	
E1	0%	C1	50%	P1	50%	
(Examination)		(Coursework)		(Practical)		
E2 (Clinical	0%	A1 (Generic	0%			
Examination)		Assessment)				
T1 (Test)	0%					

SUBJECT ASSESSMENT PANEL Group to which module should be linked:

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

To develop a broad understanding of the knowledge base which underpins animal physiological and behavioural needs and challenges within a zoo environment. The suitability of the animal environment and the effectiveness of enrichment and other captive husbandry strategies will be explored and evaluated.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Identify key body systems & behavioural repertoires of wild captive species
- 2. Analyse, synthesise and summarise critically correlations between physiology, behaviour and husbandry techniques
- 3. Research and identify possible alterations to captive management strategies
- 4. Collect and analyse data for species in a zoological setting

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	Semester 2 (SP)

IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	Semester 2 (SP)

Additional notes (for office use only):

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. <u>Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students.</u> Further details for current students should be provided in module guidance notes.

NATIONAL COST CENTRE: 112		
OTHER MODULE STAFF:		

SUMMARY of MODULE CONTENT

To be able to effectively assess wild captive species welfare they must first understand the physical and behavioural needs, which will be addressed for a range of commonly kept zoo animals. Students will then draw comparison with these needs and the animal management techniques used within zoos. Students will research and identify possible alterations to captive management strategies, implement these changes in agreement with a zoological park after a period of agreement, and collect appropriate data to be able to form a judgement on the value of the change.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]						
Scheduled Activities	Hours	Comments/Additional Information				
Lectures	40	Lectures will include enclosure design, body systems and behaviour of species and their captive requirements.				
Practical's	50	Practical's will enable students to review a range of captive management strategies. There will also be the opportunity to gather and analyse data				
Private study/assignments	110					
Total	200	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)				

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E		% Total = 100%	
exam			%	
CAGIII	T_		Total = 100%	
Coursew		Report	100%	LO2, 3, 4
ork	C1		Total = 100%	
		Presentation	100%	LO1
Practical	P1		Total =	
			100%	

Updated by:	Date:	Approved by:	Date:
Stacey Tanton	15/05/2020	Stacey Tanton	15/05/2020

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Fa, J. Funk, S. O'Connell, D. (2011) *Zoo Conservation Biology*. Cambridge: Cambridge University Press.

Hosey, G. Melfi, V. Pankhurst, S. (2013) *Zoo Animals: Behaviour, Management and Welfare*. Oxford: Oxford University Press

Kleiman, D. Thompson, K. Kirk Baer, C. (2013) Wild Mammals in Captivity: Principles and Techniques for Zoo Management, Second Edition. Chicago: University of Chicago Press

Maple, T. Shepherdson, D. Mellen, J. Hutchins, M. (1999) *Second Nature: Environmental Enrichment for Captive Animals*. Smithsonian Books.

Martin, P. Bateson, P. (2007) *Measuring Behaviour: An Introductory Guide*. Cambridge University Press.

Rees, P. (2011) An Introduction to Zoo Biology and Management. Oxford: Wiley-Blackwell

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

MODULE CODE: PETR210	ODULE CODE: PETR2102		DDULE CODE: PETR2102 MODULE TITLE:		Experimental Design and Analysis
CREDITS: 20	FHEQ Level: Level 5		JACS CODE: I290		
3.120.000					
PRE-REQUISITES: 'None'	C	O-REQUISITES: 'None'	COMPENSATABLE: No		

SHORT MODULE DESCRIPTOR: (max 425 characters)

This module focuses on core skills and techniques in field studies and data analysis essential to animal conservation. Practical work needs to be performed safely and efficiently within an appropriate experimental design, results described and analysed competently, and outcomes effectively presented. Students complete a chosen research project and a literature review of a topic addressing wider issues.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]							
WRITTEN EXAMINATION		COURSEWORK		PRACTICAL			
E1	0%	C1	80 %	P1	0%		
(Examination)		(Coursework)		(Practical)			
E2 (Clinical	0%	A1 (Generic	0%				
Examination)		Assessment)					
T1 (Test)	20 %						

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Science

Professional body minimum pass mark requirement: None

MODULE AIMS:

To develop competence in the design and execution of a biology-related research study, data gathering and interpretation, and an ability to communicate their findings by means of oral and written reports. To encourage students to carry out self-directed study of current issues and concepts relevant to their degree programme.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. As part of a biology-related research study, design and execute the collection of data via any combination of laboratory work, field work, questionnaire and reference to scientific literature.
- 2. Analyse, interpret and critically evaluate data in the context of contemporary subject-specific practice and literature.
- 3. Apply relevant data analysis methods, using appropriate software, and techniques
- 4. Identify good practices and relevant safety codes and their application to research.

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	All year

Additional notes (for office use only):

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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a quide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE: 112
MODULE LEADER: Leitza Gorman	OTHER MODULE STAFF:

SUMMARY of MODULE CONTENT

Highly varied, but must include: consideration of experimental or sampling design and execution; data gathering, analysis and interpretation, literature search and review; report writing; science communication.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Scheduled Activities	ivities Hours Comments/Additional Information			
Lectures/workshops	40	Lectures will focus on the methods of designing experiments and the approaches to be taken, as well as data analysis techniques.		
Research Project	20	Students will outline proposals for experiment, then have "supervisor" to guide through the process, this will be in the form of group seminars and 1:1		
Private study/assignments	140	To identify, gather and analyse data, and conduct literature review around this.		
Total	<u>200</u>	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)		

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Written	E_		0% Total= 0%	
exam	T1		100% Total= 0%	LO3
Coursew ork	C 1	Report on experiment methodology and statistical analyses	100% Total= 100%	LO1, 2, 4
Practical	P_			

Updated by:	Date:	Approved by:	Date:
Megan Kavanagh	07/09/2021	Stacey Tanton	07/09/2021

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Grainger, J., Hurst, J, Burdass, D (2006) Basic *Practical Microbiology: A Manual.* Reading: Society for General Microbiology

Holmes, D, Moody, P. (2010) Research Methods for the Biosciences, Oxford: OUP

Kumar, R (2014) Research Methodology. 4th edn. London: Sage

Martin, P. Bateson, P. (2007) *Measuring Behaviour: an introductory guide,* Cambridge University Press

Wyers, J, Reed, R. and Jones, A. (2012), Practical Skills in Biology. London: Pearson

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty Quality Procedures for approval and issue of new module code.

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MODULE CODE: NORD2082		DDE: NORD2082 MODULE TITLE: Wi		dlife Management & Rehabilitation		
CREDITS: 20 F		FHEQ Level: 5		JACS CODE: D446		
PRE-REQUISITES: None	CO-REQUISITES: None			COMPENSATABLE: Yes	,	

SHORT MODULE DESCRIPTOR: (max 425 characters)

The module will provide an understanding of the complex and varied factors affecting wildlife, including reasons affecting resources, their funding and their management and how these issues impact upon the species themselves. Students will apply their resource management knowledge to a range of habitats. Ecological, legal & ethical rehabilitation factors will also be considered

ELEMENTS OF	ELEMENTS OF ASSESSMENT Use HESA KIS definitions]						
WRITTEN EX	KAMINATION	COURSEWORK		PRACTICAL			
E1	20 %	C1 80 %		P1	0%		
(Examination)		(Coursework)		(Practical)			
E2 (Clinical	0%	A1 (Generic	0%				
Examination)		Assessment)					
T1 (Test)	0%						

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Science

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

The module aims to enable students to analyse a range of factors affecting resource management and wildlife rehabilitation. Students will then have the opportunity to both manage a resource and the rehabilitation of species in conjunction with local partners such as The National Trust, Lundy Island (Landmark Trust), Exmoor & Dartmoor National Parks and Braunton Burrows Biosphere Reserve. Wherever possible students will have the opportunity to engage in practical application of their knowledge.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

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

- 1. Identify factors affecting the management of exploited wildlife species
- 2. Describe the ecology of exploited wildlife species
- 3. Plan the effective rehabilitation, release and management of a wildlife species
- 4. Identify factors affecting wildlife rehabilitation

DATE OF APPROVAL:	04/2015	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	04/2015	SCHOOL/PARTNER:	Petroc
DATE(S) OF APPROVED CHANGE:	N/A	TERM/SEMESTER:	Semester 1 (AU)

Additional	notes	(for	office	use	only).

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Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. <u>Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students.</u> Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2021-22	NATIONAL COST CENTRE: 112		

MODULE LEADER: Leitza Gorman OTHER MODULE STAFF:

SUMMARY OF MODULE CONTENT

The module aims to enable students to analyse a range of factors affecting resource management and wildlife rehabilitation. Students will then have the opportunity to both manage a resource and the rehabilitation of species in conjunction with local partners such as The National Trust, Lundy Island (Landmark Trust), Exmoor & Dartmoor National Parks and Braunton Burrows Biosphere Reserve. Wherever possible students will have the opportunity to engage in real meaningful practical application of their knowledge.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]						
Scheduled Activities Hours		Comments/Additional Information				
Lectures			50	Examine interactions between the biology of wildlife and the divergent goals of people involved in hunting fishing, gathering, and culling wildlife. Sustainable exploitation is tied to the study of population dynamics, with direct links to reproductive rates, life histories, behavior, and ecology Factors affecting wildlife rehab, local, national, international, release site, season, care of species during rehabilitation		
Practical's			10	Plan and ca resource, a	arry out the management of wildlife and plan the rehabilitation of species.	
Private stud	dy/assignm	nents	140			
Total <u>20</u>		<u>200</u>	(NB: 1 crec hours, etc)	(NB: 1 credit = 10 hours or learning; 10 credits = 100 hours, etc)		
Category	Element	Component Name		Component Weighting	Comments include links to learning objectives	
Written	E <u>1</u>	Short answ quest	-	100% Total = 100%	LO1	
exam	Τ <u>Π</u>			% Total = 100%		
Coursew ork	C 1	Reha repor	bilitation t	100% Total = 100%	LO2, 3, 4	
Practical	P			% Total =		

Updated by: Date: Stacey Tanton 15/05/2020	Approved by: Stacey Tanton	Date: 15/05/2020
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100%

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Alexander, M. (2007) Management Planning for Nature Conservation: A Theoretical Basis & Practical Guide. London: Springer.

Ausden, M. (2007) Habitat Management for Conservation: A Handbook of Techniques. Oxford: Oxford University Press Stoker (2005) *Practical Wildlife Care*. Oxford: Wiley-Blackwell

Fryxell, J. Sinclair, A. Caughley, G. (2014) *Wildlife Ecology, Conservation and management.* Oxford: Wiley-Blackwell

Hunter, M. Gibbs, J. (2006) Fundamentals of Conservation Biology. Oxford: Wiley-Blackwell