

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

		Part 1: Basi	c Data		
Module Title	Primate Ecology	and Conservati	on		
Module Code	USSK56-15-3		Level	3	Version 1
Owning Faculty	Health & Life Sciences		Field	Applied Sciences	
Contributes towards	BSc Biological Sciences BSc Wildlife Ecology & Conservation Science BSc Integrated Wildlife Conservation				
UWE Credit Rating	15	ECTS Credit Rating	17.5	Module Type	Standard
Pre-requisites	USSK5H-30-2 Wildlife Ecology or USSJPY-20-2 Animal Behaviour for Wildlife Conservation		Co- requisites	None	
Excluded Combinations	None		Module Entry requirements	If offered as CPD or stand alone	
Valid From	September 2013	3	Valid to	ТВА	

CAP Approval Date	19 th June 2013

	Part 2: Learning and Teaching
Learning Outcomes	 On successful completion of this module students will be able to: demonstrate an advanced understanding of primate taxonomic diversity and primate evolution and be able to relate primate adaptations to the evolution and ecology of the four major primate habitat regions (Africa, Madagascar, Asia, Neotropics) (assessed in Component A)
	 critically discuss the role of primate nutritional ecology and predation on primates as the main selection pressures influencing primate behaviour (assessed in Component A); review primate secial behaviour, primate secial systems and their opelogical
	 Teview primate social behaviour, primate social systems and their ecological basis (assessed in Component A); avaluate the state of the environment in the major primate hebitat regions in
	 evaluate the state of the environment in the major primate habitat regions in relation to species requirements and habitat conservation (assessed in Component A);
	 undertake a variety of primatology methods to record scientific data in the field, and present, analyse and interpret these data (assessed in Component B):
	 use a wide range of resources that support primate research methods and problem solving (assessed in Component B).
Syllabus Outline	This module is designed to introduce students to the field of comparative primatology, with emphasis on primate ecology and conservation. They not only learn about the diversity and evolution of primates, their adaptations to different habitats and ecological niches, their socioecology and conservation needs, but are also introduced

	to different field and laboratory methods in primatology.
	1) Primate taxonomic diversity and evolution
	What are primates? The order Primates – families, genera, species and subspecies. Primate evolution – origin, early primates, radiation, colonisation of Madagascar and the Neotropics, speciation processes. Species concepts – overview.
	2) Primate adaptations
	Primate distributions and major habitat regions – Africa, Madagascar, Asia, Neotropics. Strepsirrhines vs. haplorhines; catarrhines vs. platyrrhines. Evolution of primate adaptations. Examples for specialisations in primates. Primate locomotion – quadrupedal and bipedal locomotion, brachiation, prehensile tails.
	3) Primate nutritional ecology and predation
	Dietary categories in primates. Adaptations of dentition and digestive tract – foregut- fermenting folivores, hindgut-fermenting folivores, frugivores, insectivores. Specialist feeders – gummivores, granivores, graminivores. Body weights of wild and captive primates. Feeding primates in zoos. Predation on primates – predator-primate interactions, predation risk and vulnerability, predator-sensitive behaviours, anti- predator behaviours.
	4) Primate socioecology and behaviour
	Socioecology – how do environmental variables influence primate group size, composition, and social dynamics? Primate social organisation – mating and rearing patterns, demography/grouping patterns, intra- and intergroup behaviour. Communication – signal structure, intra- and inter-species communication. Cooperation and competition, social learning, cognition.
	5) Primate conservation
	The conservation status of primates – IUCN Red List, Primate Specialist Group. Major threats to primates – habitat destruction and degradation, hunting, trade, resource extraction. Species conservation vs. habitat conservation, ecosystem services etc. Success stories and failures in primate conservation – examples. Main actors in primate conservation – national and regional authorities, NGOs, private sector. The role of good governance in primate conservation.
	6) Methods in primate research
	Habituating primates, habitat description, primate survey and census methods (population distribution and density, transects vs. plot-based methods), trapping, handling and sampling techniques, morphometrics and taxonomy, radio-tracking, feeding ecology and dietary analysis, observational studies of behaviour, field and zoo experiments.
Contact Hours	The contact hours (36) are distributed as follows:
	9 interactive lectures @ 3 hours/lecture = 27 hours
	3 practicals @ 3 hours/practical = 9 hours
Teaching and	The module is delivered at Bristol Zoo Gardens.
Learning Methods	The module makes extensive use of Bristol Zoo's expertise in primate conservation, as well as its large collection of captive primates. It is able to draw on the Zoo's wide experience of in-situ primate conservation work around the world, especially in Madagascar and the Cameroon, to provide real-world case-studies to support student learning.
	Delivery of this module will principally be by experts from Bristol Zoo. Consequently, interactive lecture sessions are the most appropriate method for delivery and interacting with the students. These interactive sessions will include debates, discussion on case studies and problem based learning activities.
	Scheduled learning includes interactive lectures and practical classes based on the Zoo's primate collection.

	Independe preparation an average	ent le n, as e time	earning inclusignment pre e per level as	udes hours en eparation and s indicated in t	gaged with es completion etc he table below	ssential read 2. These sess 7.	ing, case st sions consti	udy tute
Key Information Sets Information	Key Informa this module comparable prospective interested in	tion s contr sets stude app	Sets (KIS) ar ributes to, wh of standardis ents to comp lying for.	e produced at nich is a requir sed informatio are and contra	programme le rement set by l n about under ast between pr	evel for all pro HESA/HEFC graduate cou ogrammes t	ogrammes t E. KIS are urses allowin hey are	that ng
	Hours allocate	to be ed	Scheduled learning and teaching	Independent study hours	Placement study hours	Allocated Hours		
			study hours					
	150)	36	114	0	150	\bigcirc	
	The table be	elow	indicates as	a percentage	the total asses	ssment of the	e module wł	nich
	CONSTITUTES	a -						
	Written Exa	am: L	Jnseen writte	en exam				
	Coursewor	k : W	ritten report					
	Please note	that	this is the to	tal of various t	whee of asses	smont and w	vill not	
	necessarily	refle	ct the compo	nent and mod	lule weiahtinas	sinent and w	ssment sect	tion
	of this modu	ile de	escription:					
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		V	Vritten exam a	ssessment per	centage	60%		
		С	oursework as	sessment perc	entage	40%		
						100%		
						1		
Reading Strategy	Student lear Blackboard. will be encourse course co	ning Cop urage f the	will be suppo ies of recomi ed to read ori module. Sor	orted through t mended textbo iginal literature me papers will	the University's boks are availa e (peer-reviewed be discussed	s E-Learning able in the lib ed scientific during intera	environme parary. Stude papers) duri active lectur	nt, nts ing es.
	Suggested	Text	s	of the fields of	primatology of	overed by thi	e module is	
	Campbell CJ, Fuentes A, Mackinnon KC, Panger M, Bearder SK. 2007. <i>Primates in perspective</i> . Oxford, UK: Oxford University Press.							
	The textboo	k tha	t will he used	as a thread t	hrough the fiel	d and labora	tory method	ds
	section of the module is:							
	Setchell JM, Curtis DJ. 2003. <i>Field and laboratory methods in primatology: A practical guide</i> . 2 nd edition. Cambridge, UK: Cambridge University Press.							
Indicative	The most re	cent	edition of					
Reading List			-					
	Cowlishaw (Press.	G. Pr	imate conser	vation biology	. Chicago, IL:	The Univers	ity of Chica	go

Fleagle JG. Primate adaptation and evolution. 2 nd edition. Academic Press Inc.
Garber PA, Estrada A, Bicca-Marques JC, Heymann EW. South American primates: Comparative perspectives in the study of behavior, ecology and conservation. Springer.
Groves CP. Primate taxonomy. Washington, DC: Smithsonian.
Gould L, Sauther ML. Lemurs - ecology and adaptation. Springer.
Hohmann G, Robbins MM, Boesch C. Feeding ecology of apes and other primates. Cambridge, UK: Cambridge University Press.
Kappeler PM, Ganzhorn JU. Lemur social systems and their ecological basis. New York, NY: Plenum Press.
Lee PC. Comparative primate socioecology. Cambridge University Press.
Mitani J, Call J, Kappeler PM, Palombit R. The evolution of primate societies. Chicago, IL: The University of Chicago Press.
Journals:
Primates African Primates (open access online) Neotropical Primates (open access online) Asian Primates (open access online) Lemur News (open access online) Folia Primatologica International Journal of Primatology American Journal of Primatology Primate Conservation (open access online)

	Part 3: Assessment
Assessment Strategy	The Assessment Strategy has been designed to take full advantage of the facilities offered by Bristol Zoo for studying primate ecology, whilst ensuring that the module Learning Outcomes are attained and is consistent with the Department's assessment strategy for Level 3 modules.
	The coursework assessment consists of an extended piece of practical research comprising the observation of the behaviour of a specific primate species/group within the Zoo, combined with the appropriate analysis, presentation and interpretation of the research data, and its evaluation in the context of the published research literature. It is an extended piece of work designed to test the research, analysis and critical appraisal skills expected of students in the final year of their undergraduate degrees. Word limit 3,000 words. This assessment has been designed as appropriate for skills development by Bristol Zoo Gardens, an employer in this field.
	The controlled component is a written exam. The exam will be 3 hours duration which is consistent with the Department's assessment strategy for Level 3 modules. The exam explores the students' breadth and depth of understanding of key concepts in Primate ecology and conservation. Questions are designed to explore a student's ability to recognise and use key theories and concepts in both familiar and unfamiliar situations, to synthesise and critically evaluate information from a range of sources, and to use contemporary evidence (eg. case studies) to support their arguments. This assessment has been designed as appropriate for skills development by Bristol Zoo Gardens, an employer in this field.

group discussions, skills evaluations etc. built into the lecture and practical programme. Students are provided with formative feed-forward for their exam through a revision and exam preparation session at the end of the module, and through support materials supplied through Blackboard.

Identify final assessment component and element	Written Exam		
% weighting between components A and B (Standard modules only)			B: 40%
First Sit			
Component A (controlled conditions) Description of each element		Element w (as % of co	veighting personnent)
1. Written Exam (3 hours)		10	00
2.(etc)			
Component B Description of each element		Element v (as % of co	veighting periode state (see the second seco
1. Practical Report (3,000 words)		10	00
2.(etc)			

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) Description of each element	Element weighting (as % of component)
1. Written Exam (3 hours)	100
2.(etc)	
Component B Description of each element	Element weighting (as % of component)
1. Practical Report (3,000 words)	100
1. Practical Report (3,000 words) 2.(etc)	100

If a student is permitted an **EXCEPTIONAL RETAKE** of the module the assessment will be that indicated by the Module Description at the time that retake commences.