

ACADEMIC SERVICES

MODULE SPECIFICATION

		Part 1: Basi	c Data		
Module Title	Contemporary B	liology			
Module Code	USSKM4-30-M		Level	М	Version 1
Owning Faculty	Health and Applied Sciences		Field	Applied Sciences	
Department	Department of A	pplied Sciences	i		
Contributes towards	MSci Biological	Sciences			
UWE Credit Rating	30	ECTS Credit Rating	15	Module Type	Standard
Pre-requisites	None		Co- requisites	None	
Excluded Combinations	None		Module Entry requirements	None	
Valid From	September 2016	3	Valid to	Septembe	er 2022

CAP Approval Date May 2016

	Part 2: Learning and Teaching
Learning Outcomes	 On successful completion of this module students will be able to: Demonstrate a systematic understanding and critical awareness of key developments in the biosciences and their applications and the philosophical and ethical issues involved (A1, B1). Obtain and integrate multiple lines of subject-specific evidence to formulate and test hypotheses, and make sound judgements even in the absence of complete data (B2). Recognise and apply subject-specific theories, paradigms, concepts and principals (B1). Demonstrate competence and progressive development in core and advanced experimental skills (B2). Give a clear and accurate account of a biological sciences topic, marshal arguments in a mature way and engage in debate and dialogue using appropriate scientific language (A1).
Syllabus Outline	 The focus of the module is contemporary biological science. Three principal themes will underpin the delivery of this module; human, ecology and molecular. These themes run throughout the degree programme. Molecular biology: students will develop an advanced understanding of the applications of genetics, genomics and proteomics in addition to gaining experience of the associated practical skills. Human biology: students will develop an advanced understanding of the application of contemporary biology, aspects of human health and disease in addition to gaining experience of the associated practical skills. Ecology: students will develop an advanced understanding of the application of contemporary biology, aspects of human health and disease in addition to gaining experience of the associated practical skills.

	to gaining experience of the associated practical skills.						
Contact Hours	Schedul	ed contact tim	ne will compris	e:			
	• 11 x 2 h	our lectures.					
	• 11 x 1 h	our tutorials.					
	• 11 x 3 h	our practical/f	ield skills sess	ions.			
	• 1 x 6 ho	ur poster pres	entation sessi	on.			
	Delivere	d as one day	per week in Se	emester 1.			
Teaching and Learning Methods	 Schedul practical knowled the hum program 	ed learning is sessions. Lea ge along with an, ecology a me.	by a structure ctures are desi an overview o and molecula	d programme igned to delive f the topic and r themes whic	of lectures, er specialist d relevant co h run throug	tutorials and subject ontext in terms hout the	s of
	 Tutorial lecture n others, c of view. 	sessions will e naterial allowin levelop negoti	engage studen ng students to iating skills and	ts in discussic recognise and d appreciate tl	on and deba d respect the ne validity of	te around the e views of f differing poir	nts
	 Practica specialis develop data har on labor 	l sessions will at subjects intr their practical adling and will atory analysis	encourage ex oduced in lect and experime be required to	periential lear ures. Students ntal planning undertake an	ning whilst s s will have th skills, will ga i investigativ	supporting the ne opportunity ain experience re report base	e / to e in ed
	 Student Environr peer-rev utilised t for Appli 	learning will b nent (OLE; Bl iewed publica o direct learne ed Microbiolog	e supported th ackboard) thro itions to guide ers to relevant gy and Society	arough the Uni rugh provision independent s online resource of for General N	iversity Onlin of/direction study. The C ces for exam dicrobiology	ne Learning to appropriat DLE will be aple the Socie	e ety
	 Students hours of during 1 tutorial fe day' will contemp 	s are expected independent 1 intensive un ollowed up by be the culmin porary biology	d to undertake learning over a its comprising a 3 hours prace ation of the mo topic to staff m	72 hours of so a single semes a 2 hour lectu ctical/field skill odule where s nembers and t	cheduled lea ster. Learnir ire followed is session. A tudents will heir peers.	arning and 22 ng will take pla by a 1 hour A single 'poste present a	8 ace er
Key Information Sets Information	Key Information this module cont comparable sets prospective stud interested in app	Sets (KIS) are ributes to, whi of standardis ents to compa lying for.	e produced at p ich is a require ed information are and contras	programme le ment set by H about underg st between pro	vel for all pro IESA/HEFC graduate cou ogrammes th	ogrammes tha E. KIS are irses allowing ney are	at)
	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours		
	300	72	228	0	300		

	The table bel constitutes a Written Exar Coursework Practical Exa practical exar Please note t necessarily re of this module	ow indicates - m: Unseen w : Written ass am: Oral Ass m hat this is the eflect the cor e description	as a perce ritten exam ignment or sessment a e total of va nponent an :	ntage the tot , open book essay, repor nd/or presen arious types o d module we	al assessme written exar t, dissertatio tation, pract of assessme eightings in t	ent of the m m, In-class t on, portfolio, ical skills as ent and will r the Assessn	odule which est project sessment, not nent section
		lotal asses	ssment of t	ne module:			
		Written exa	m assessn	nent percent:	age	0%	
		Coursewor	k assessm	ent percenta	ae	100%	
		Practical ex	am assess	sment percer	ntage	0%	
						100%	
Reading Strategy	All students w available to th electronic jou information ga relevant reson accessed rem to develop the resources effer This guidance information of module/progre	vill be encour nem through rnals and a v ateways. The urces and se notely. Stude eir informatio ectively. e will be avail n Blackboard amme leade	raged to ma membershi vide variety e University rvices, and nts will be p n retrieval a lable either l or through rs.	ake full use o p of the Univ of resources Library's we to the library presented wi and evaluation	f the print ar versity. Thes available the b pages pro- v catalogue. th opportuni on skills in or le handbook whicle deem	nd electronic e include a hrough web ovide access Many resou ties within th rder to ident c, via the mo ed appropria	c resources range of sites and s to subject urces can be ne curriculum tify such
Indicative Reading List	Nature Current Biolo Current Opini Current Opini Current Opini The named jo	gy on in Cell Bio on in Biotech on in Enviror ournals are a	blogy nology nmental Su vailable ele	stainability ctronically th	rough the Li	ibrary Servio	ce.

Part 3: Assessment

Assessment Strategy	 Component A (poster with oral defence) is designed to allow students to demonstrate a critical awareness of key developments in the biosciences through production of a poster suitable for display at a scientific conference and the defence will allow them the opportunity to marshal arguments in a mature way and engage in debate and dialogue using appropriate scientific terminology. Component B1 is intended to assess students' ability to apply subject specific concepts whilst engaging with the subject, demonstrating critical awareness of key biosciences concepts and recognising and applying subject-specific theories, paradigms, concepts and principals. Component B2 will assess students' ability to test hypotheses, demonstrate practical competence in generating data and in working with that data and progressive development in core and advanced experimental skills.

	A:	B:
% weighting between components A and B (Standard modules only)	50	50
First Sit		
Component A (controlled conditions)	Element v	veighting
Description of each element	(as % of co	omponent)
1. Poster with oral defence (1 hour).	10	0
Component B	Element v	veighting
Description of each element	(as % of co	omponent)
1. 5,000 word written review of a contemporary topic.	5	0
2. 2,000 word investigative report based on analysis of laboratory data.	5	0

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) Description of each element	Element weighting (as % of component)
1. Poster with oral defence (1 hour).	100
Component B Description of each element	(as % of component)
Component B Description of each element 1. 5,000 word written review of a contemporary topic.	Element weighting (as % of component) 50
Component B Description of each element 1. 5,000 word written review of a contemporary topic. 2. 2,000 word investigative report based on analysis of laboratory data.	Element weighting (as % of component) 50 50

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.