

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data							
Module Title	Advanced Animal Microbiology						
Module Code	UINV4T-15-3	Level	3	Version	1.0		
UWE Credit Rating	15 ECTS Credit Rating		7.5	WBL module? No		·	
Owning Faculty	Hartpury Field Animal and Land S			Land Sci	ence		
Department	Animal and Land Module Type Standard						
Contributes towards	BSc (Hons) Animal Science BSc (Hons) Animal Science (SW) BSc (Hons) Bioveterinary Science BSc (Hons) Equine Science BSc (Hons) Equine Science (SW) MSci Equine Science MSci Equine Science (SW)						
Pre-requisites	Animal Microbiology Co- requisites None (UIN XRK-15-2)						
Excluded Combinations	None Module Entry None requirements						
Valid From	01 September 2	2015	Valid to	01 Septeml	ber 2021		

CAP Approval Date	12 January 2015		

Part 2: Learning and Teaching				
Learning Outcomes	On successful completion of this module students will be able to: 1. Critically analyse a range of biotechnologies used in the study of animal			
	microbiology. (A) 2. Analyse and apply the underlying principles behind advanced diagnostic techniques. (B)			
	 Critically evaluate a range of current developments in animal microbiology. (A, B) 			
	 Analyse the impact of recent developments in microbial molecular genetics on veterinary science. (A) 			
	5. Interpret and apply the results from advanced diagnostic techniques. (B)			
Syllabus Outline	 Molecular and cellular microbiology Analysis and manipulation of microbial DNA 			
	Microbial biology and pathogenesis			

	Diagnostic methods in microbiology Antimicrobial chemotherapy						
	Bioinformatics						
Contact Hours	Applications of micro-organisms and molecular genetics in animal science Indicative delivery modes:						
Contact Flours	1. Lectures, guided learning, seminars etc.						
	Self-directed learning						
	3. Independent learning 114						
	TOTAL				150		
Teaching and Learning Methods	This module is delivered using large group learning sessions and opportunities for small group work. Additionally essential and recommended reading and exercises will be introduced to guide the students through the core syllabus.						
	Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below. Virtual Learning Environment (VLE) This module is supported by VLE where students will be able to find all necessary						
	module information. Direct links to information sources will also be provided from within VLE.						
Key Information Sets Information	Key Information Sets (KIS) are produced at programme level for all programmes that this module contributes to, which is a requirement set by HESA/HEFCE. KIS are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.						
	Key Inform	nation Set - Mo	odule data				
	<u>rtey iiiioi ii</u>		<u>Jaaio aata</u>				
	Numbero	f credits for this	s module		15		
	Llaura ta	Cabadulad		Discourses	Allonotod		
	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	study hours	Allocated Hours		
	150	36	114	0	150	②	
	The table below indicates as a percentage the total assessment of the module which constitutes a - Written Exam: Unseen written exam, open book written exam, In-class test Coursework: Written assignment or essay, report, dissertation, portfolio, project Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description:						

		Total assessment of the module:					
		Written exam assessment percentage			50%		
		Coursework assessment percentage			0%		
		Practical exam assessment percentage			ntage	50%	
						100%	
Reading	Essential re	_					

Strategy

Any essential reading will be indicated clearly, along with the method for accessing it, e.g. students may be required to purchase a set text, be given a print study pack or be referred to texts that are available electronically or in the library. Module guides will also reflect the range of reading to be carried out.

Further readings

Further reading will be required to supplement the set text and the other printed readings. Students are expected to identify all other reading relevant to their chosen topic for themselves. They will be required to read widely using the library search, a variety of bibliographic and full text databases, and internet resources. Many resources can be accessed remotely. The purpose of this further reading is to ensure students are familiar with current research, classic works and material specific to their interests from their academic literature.

Access and skills

Formal opportunities for students to develop their library and information skills are provided within the induction period and student skills sessions. Additional support is available through online resources. This includes interactive tutorials on finding books and journals, evaluation information and referencing. Sign up workshops are also offered.

Indicative Reading List

The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. However, as indicated above, CURRENT advice on readings will be available via other more frequently updated mechanisms, including the module guide.

Books

Chan, E. C. S., Pelczar, N., and Krieg, N. (Current Edition) Laboratory Exercises in Microbiology. London: McGraw-Hill Science.

Glazer, A. N. and Nikaido, H. (Current Edition) Microbial Biotechnology: Fundamentals of Applied Microbiology. Cambridge: Cambridge University Press.

Lowrie, P. and Wells, S. (Current Edition) Microbiology and Biotechnology. Cambridge: Cambridge University Press.

Journals

Advances in Applied Microbiology

Cellular Microbiology

Molecular Microbiology

Part 3: Assessment				
Assessment Strategy	The assessment strategy for the module will include a written examination (1.5 hours) and written assignment in the form of a laboratory report (1500 words).			
	The examination will allow the student to demonstrate the knowledge and			

skills gained throughout the module, assessed in controlled examination settings.

The laboratory report will allow the student to facilitate practical application of the information covered in the laboratory sessions and additional study, formulated into a report of a laboratory experiment designed by the student.

Formative feedback can be gained from this module in the module delivery, on the VLE, in tutorials and in revision sessions. Summative feedback can be gained upon exam and assignment scripts.

In line with the College's commitment to facilitating equal opportunities, a student may apply for alternative means of assessment if appropriate. Each application will be considered on an individual basis taking into account learning and assessment needs. For further information regarding this please refer to VLE.

Identify final assessment component and element	Written Examination		
% weighting between components A and B (Star	A: 50%	B : 50%	
First Sit			
Component A (controlled conditions)		Element v	veighting
Description of each element			vergriting
Description of each element Written Examination (1.5 hours)		100	
•			0%

Resit (further attendance at taught classes is not required)				
Component A (controlled conditions) Description of each element	Element weighting			
Written Examination (1.5 hours)	100%			
Component B Description of each element	Element weighting			
Laboratory Report (1500 words)	100%			

If a student is permitted a retake of the module under the University Regulations and Procedures, the assessment will be that indicated by the Module Description at the time that retake commences.