

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Pharmacology					
Module Code	UINV3L-15-3		Level	3	Version	1
UWE Credit Rating	15	ECTS Credit Rating	7.5	WBL module?	No	
Owning Faculty	Hartpury		Field	Animal and Land Science		
Department	Animal and Land		Module Type	Standard		
Contributes towards	BSc (Hons) Bioveterinary Science					
Pre-requisites	Applied Animal Health and Disease (UIN XSN-30-2)		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements	None		
Valid From	01 September 2015		Valid to	01 September 2021		

CAP Approval Date	12 December 2014
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Part 2: Learning and Teaching	
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <ol style="list-style-type: none"> 1. Review different types of pharmacological compounds and evaluate their modes of action within the body. (A, B) 2. Identify the effects of drug residues in food producing animals. (A) 3. Critically evaluate the legislation covering the use, storage and disposal of therapeutic agents. (A) 4. Evaluate the efficacy of pharmacological compounds in a variety of physiological and pathological states. (A) 5. Critically analyse the problems associated with drug resistance. (A)
Syllabus Outline	<ul style="list-style-type: none"> • Pharmacokinetics and pharmacodynamics • The main classes of veterinary drugs available for the treatment of pathological conditions • Government legislation surrounding the use of veterinary drugs, including the prescribing cascade. • Legislation surrounding the storage and disposal of drugs in the veterinary practice • Mechanisms of drug resistance and measures that can be implemented to prevent the occurrence of drug resistance

	<ul style="list-style-type: none">• Minimum residue limits and withdrawal periods																																			
Contact Hours	<div>Indicative delivery modes</div> <div><div><ul style="list-style-type: none">• Lectures, guided learning, seminars• Self directed learning• Independent learning</div><div><div>33</div><div>3</div><div>114</div></div></div> <div>TOTAL150</div>																																			
Teaching and Learning Methods	<div>This module is delivered using large group learning sessions and opportunity for small group work. Additionally essential and recommended reading and exercises will be introduced to guide the students through the core syllabus.</div> <div>Scheduled learning includes lectures, seminars and tutorials.</div> <div>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.</div> <div>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.</div>																																			
Key Information Sets Information	<div>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.</div> <div><table><tr><th colspan="5">Key Information Set - Module data</th></tr><tr><td colspan="5"></td></tr><tr><td colspan="4">Number of credits for this module</td><td>15</td></tr><tr><td colspan="5"></td></tr><tr><td>Hours to be allocated</td><td>Scheduled learning and teaching study hours</td><td>Independent study hours</td><td>Placement study hours</td><td>Allocated Hours</td></tr><tr><td>150</td><td>36</td><td>114</td><td>0</td><td>150</td></tr><tr><td colspan="5"></td></tr></table></div> <div>The table below indicates as a percentage the total assessment of the module which constitutes a -</div> <div><div>Written Exam: Unseen written exam, open book written exam, In-class test</div><div>Coursework: Written assignment or essay, report, dissertation, portfolio, project</div><div>Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam</div></div> <div>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:</div>	Key Information Set - Module data										Number of credits for this module				15						Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	150	36	114	0	150					
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Reading Strategy	<p>Essential readings</p> <p>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.</p> <p>Further readings</p> <p>Further reading will be required to supplement the set text and 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.</p> <p>Access and skills</p> <p>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.</p>																								
Indicative Reading List	<p>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.</p> <p>Books</p> <p>Bill, R.L. (Current Edition) <i>Pharmacology for Veterinary Technicians</i>. Cornell University: Mosby International.</p> <p>Bishop, Y. (Current Edition) <i>The Veterinary Formulary</i>. London: British Veterinary Association, Pharmaceutical Press</p> <p>Carpenter, J. W. (Current Edition) <i>Exotic Animal Formulary</i>. Missouri, USA: Elsevier-Saunders.</p> <p>Cunningham, F. M. and Elliott, E. (Current Edition) <i>Comparative and Veterinary Pharmacology</i>. London: Springer</p> <p>Gaynor, J. S. and Muir, W.W. (Current Edition) <i>Handbook of Veterinary Pain Management</i>. Missouri, USA: Mosby Elsevier</p> <p>Giguère, S., Prescott, J. F., Dowling, P. M. (Current Edition) <i>Antimicrobial Therapy in Veterinary Medicine</i>. Oxford: Wiley-Blackwell</p> <p>Hollinger, M. A. (Current Edition) <i>Introduction to Pharmacology</i>. Oxford: Taylor-Francis.</p> <p>Hsu, W. H. (Current Edition) <i>Handbook of Veterinary Pharmacology</i>. Oxford: Wiley-Blackwell.</p> <p>Knottenbelt, D. C. (Current Edition) <i>Saunders Equine Formulary</i>. Missouri, USA: Saunders-Elsevier.</p>																								

	<p>Nelson. R. W. and Guillerma Couto, C. (Current Edition) <i>Small Animal Internal Medicine</i>. Missouri, USA: Mosby-Elsevier.</p> <p>Radostits, O. M., Gay. C. C., Hinchcliff, K. W. and Constable, P. D. (Current Edition) <i>Veterinary Medicine: A textbook of the diseases of cattle, horses, sheep, pigs and goats</i>. Missouri, USA: Saunders.</p> <p>Journals</p> <p>Animal Health Journal</p> <p>Journal of Small Animal Practice</p> <p>The Equine Veterinary Journal</p> <p>Veterinary Record</p> <p>Journal of Veterinary Medicine</p> <p>The Veterinary Journal</p>
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Part 3: Assessment	
Assessment Strategy	<p>Assessment of this module will be via written examination (1.5 hours) and scientific poster defence (10 minutes).</p> <p>The written examination will take place under controlled conditions at the end of the semester and is designed to assess students on all of the learning outcomes of the module. Students should be able to apply the knowledge they have gained to evaluate and analyse different pharmacological interventions and demonstrate detailed knowledge of drug mechanisms of action.</p> <p>The construction of a scientific poster requires students to demonstrate skills key to the scientific field. The production of posters requires a concise writing style and ability to present information in a visually appealing fashion. Posters should synthesis current understanding of relevant drug actions. This should be communicated effectively to the examiners during the defence.</p> <p>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 the VLE.</p>

Identify final assessment component and element	Written Examination	
% weighting between components A and B (Standard modules only)	A:	B:
	80%	20%
First Sit		
Component A (controlled conditions) Description of each element	Element weighting	
1. Written Examination (1.5 hours)	100 %	
Component B Description of each element	Element weighting	
1. Scientific Poster Defence (10 minutes)	100 %	

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) Description of each element	Element weighting
1. Written Examination (1.5 hours)	100 %
Component B Description of each element	Element weighting
1. Scientific Poster Defence (10 minutes)	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.	