

**City University of Hong Kong
Course Syllabus**

**offered by Department of Veterinary Clinical Sciences
with effect from Semester B 2019/20**

Part I Course Overview

Course Title:	Conservation, Zoo and Exotic Animal Medicine
Course Code:	VM4103
Course Duration:	1 semester
Credit Units:	3 credits
Level:	B4
Proposed Area: <i>(for GE courses only)</i>	<input type="checkbox"/> Arts and Humanities <input type="checkbox"/> Study of Societies, Social and Business Organisations <input type="checkbox"/> Science and Technology
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: <i>(Course Code and Title)</i>	Completion of Year 4 courses with C grade or above
Precursors: <i>(Course Code and Title)</i>	Nil
Equivalent Courses: <i>(Course Code and Title)</i>	Nil
Exclusive Courses: <i>(Course Code and Title)</i>	Nil

Part II Course Details

1. Abstract

(A 150-word description about the course)

The course will provide approaches to the application of the principles of veterinary clinical medicine and clinical practice to the animal species more commonly kept in zoos, aviaries or aquaria or as exotic pets in institutional or domestic situations, and species commonly-encountered in the context of wildlife rescues. Taxonomic groups covered in this course will include mammals, birds, reptiles, amphibians and fish. Topics will include legislative regulation of the keeping of animals in captivity, normal housing, husbandry and nutrition, specific and unique anatomy and physiology relating to clinical decision making, preventative medicine programs (including quarantine standards, medical record keeping, parasite control, pest management and enclosure design), breeding and population management including contraception and assisted reproductive technologies), principles and acceptable standards of welfare, physical restraint, handling and chemical restraint, case history and clinical examination, sample collection, diagnostic techniques, clinical presentation and pathology of common clinical conditions, clinical disease management including therapeutics and the role of the veterinarian in zoo, wildlife and exotic medicine.

2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs [#]	Weighting* (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	Provide emergency first aid to all species (RCVS)		✓	✓	✓
2.	Understanding the behaviour of animals, including captive wildlife, and their welfare needs (RCVS)		✓	✓	✓
3.	Diagnose and treat diseases frequently seen in species commonly kept in zoos, aviaries or aquaria or as exotic pets in institutional or domestic situations, and species commonly-encountered in the context of wildlife rescues.		✓	✓	✓
		100%			

* If weighting is assigned to CILOs, they should add up to 100%.

[#] Please specify the alignment of CILOs to the Gateway Education Programme Intended Learning outcomes (PILOs) in Section A of Annex.

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

3. Teaching and Learning Activities (TLAs)

(TLAs designed to facilitate students' achievement of the CILOs.)

TLA	Brief Description	CILO No.						Hours/week (if applicable)
		1	2	3				
Lectures	Provide approaches to the application of the principles of veterinary clinical practice to zoo animals and exotic pets	✓	✓					2 hr/wk
Problem-based Learning	Group analysis of disease situations in zoo animals and exotic pets providing differential diagnoses, further tests required to achieve definitive diagnoses, and potential control measures	✓	✓	✓				2 hrs/wk

4. Assessment Tasks/Activities (ATs)

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No.					Weighting*	Remarks
	1	2	3				
Continuous Assessment: 50%							
Problem-based learning	✓	✓	✓			50%	
Examination: 50% (duration: 2 hours)							
<i>* The weightings should add up to 100%.</i>						100%	

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C)	Failure (F)
1. Problem-based learning	Ability to generate differential diagnoses, determine a diagnosis on a probabilistic basis, and nominate tests likely to lead to a definitive diagnosis. Ability to suggest appropriate therapies	Will exhibit a high level of competence	Will exhibit a good level of competence	Will exhibit a basic level of competence	Will exhibit lack of competence
2. Examination	Ability to describe the process of diagnosis and treatment of diseases commonly encountered in wildlife and other exotic animal species	Will exhibit high competence in understanding, explaining, and integrating the knowledge in written format	Will exhibit good competence in understanding, explaining, and integrating the knowledge in written format	Will exhibit basic competence in understanding, explaining, and integrating the knowledge in written format	Will exhibit lack of competence in understanding, explaining, and integrating the knowledge in written format

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

Zoos, aviaries, aquaria, exotic pets, species, wildlife rescues, mammals, birds, reptiles, amphibians, fish husbandry, management, biosecurity, nutrition, breeding management, animal welfare, restraint, handling, medicine, case history, clinical examination, differential diagnosis, clinical diagnosis, definitive diagnosis, sample collection, therapy, drugs, preventative medicine, legislation, regulation.

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

1.	None
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2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

1.	Doneley, B. (2010). <i>Avian Medicine and Surgery in Practice</i> . CRC Press, Baton Rouge.
2.	Miller, R. and Fowler, M. (2015). <i>Fowler's Zoo and Wild Animal Medicine</i> . Elsevier, St Louis.
3.	Mitchell, M. and Tully, T. (2009). <i>Manual of Exotic Pet Practice</i> . Elsevier, St Louis.
4.	West, G., Heard, D, and Caulkett, N. (2014). <i>Zoo Animal and Wildlife Immobilization and Anesthesia, 2nd edition</i> . Wiley-Blackwell.
5.	Wobeser, G. (2005). <i>Essentials of Disease in Wild Animals</i> . Wiley-Blackwell.