

EFFECTIVE: SEPTEMBER 2007 CURRICULUM GUIDELINES

A.	Division:	Education	Ef	fective Date:		September 2007	
B.	Department / Program Area:	Science & Technology Animal Health Technology	If	vision Revision, Section(s) vised:		New Course	X
C:	AHTT 1102		Da Da L abora	te of Previous Revisio te of Current Revision atory Procedures I		E: 3	
F:	Subject & Course No.Descriptive TitleSemester CreditsCalendar Description:This course is designed to provide students with the necessary background to perform basic veterinary, clinical and laboratory procedures. The methodology for care and maintenance of veterinary laboratory equipment is covered, in addition to the materials and methods used to perform common diagnostic tests, sample preparation and submission and accurate record keeping. Diagnostic testing for, and identification of common small and large animal parasites and techniques for blood collection and catheterization are practiced. Students will also be introduced to basic Clinical Pathology including haematology, complete blood counts, and urinalysis.						
G:	Allocation of Contact Hours to Type of Instruction / Learning Settings Primary Methods of Instructional Delivery and/or Learning Settings: Lecture/Laboratory Number of Contact Hours: (per week / semester for each descriptor) 5 hours/week: 3 hours lecture/2 hours lab Number of Weeks per Semester: 15 weeks		H: I:	Course Prerequisites None Course Corequisites:			
			T.	None Course for which thi	a Cour	a is a Draraquisita	
			J:	AHTT 1202	s Cours	se is a rierequisite	
			K:	Maximum Class Size	2:		
T.		- A TTE -					
L:	College Cr		ETAIL	S (www.bctransferguid	de.ca)		

M:	Course Objectives / Learning Outcomes:					
	Upon completion of AHTT 1102 - Veterinary Laboratory Procedures I, the student will be able to:					
	1. Prepare and maintain a veterinary practice laboratory.					
	2. Utilize common laboratory equipment, including the compound microscope, refractometer and centrifuge.					
	3. Employ additional instrumentation used in microbiology, haematology and parasitology, such as blood chemistry analyzers, electronic cell counters, and incubators,					
	4. Be competent in the calibration of a compound microscope.					
	5. Demonstrate recognition of quality control methods.					
	6. Value and practice safety in the laboratory.					
	7. Identify the major parasites of small and large animals.					
	8. Appreciate the life cycles, zoonotic potential and control methods for these parasites.					
	9. Perform diagnostic tests routinely used in veterinary parasitology.					
	10. Know the techniques used to obtain haematological samples, including those for blood chemistry analysis.					
	11. Understand the function, formation and abnormalities of components of blood.					
	12. Perform routine testing used in haematology, such as complete blood count.					
	13. Complete laboratory submission forms and be familiar with sample preparation for submission.					
	14. Identify and perform steps required for a complete urinalysis.					
N:	Course Content:					
	The major topics in the course include the following:					
	 Introduction to Laboratory Equipment function, operating procedures, care and maintenance of binocular microscope calibration of instrumentation use of refractometer and centrifuge familiarization with spectrophotometer and other miscellaneous equipment 					
	 2. Parasitology: life cycles of internal and external parasites common in veterinary medicine control and zoonotic potential of these parasites diagnostic techniques, and gross and microscopic identification 					
	 3. Clinical Pathology Part I (Haematology): methodology of sample collection, separation, and preparation and handling for analysis accurate record keeping and completion of laboratory requisition form function and formation of erythrocytes, leukocytes and platelets diseases and abnormalities of blood bone marrow testing platelets and understanding haemostasis 					
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		ice counters, la						
		techniques usin			opette system			
		oat analysis and						
		cell volumes an						
		ion of blood fil						
	- red blood cell indices calculations, and performance of a differential white blood cell count							
	5. Compor	nents of the Uri	nalysis:					
		collection techn						
	- gross ev	aluation	-					
	- determir	ning urine speci	ific gravity a	nd significanc	e			
	- biochem	ical analysis		-				
	- sedimen	t preparation a	nd analysis					
0:	Methods	of Instruction:						
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		e involves thre	e nours of cla	assroom instru	iction per wee	ek and two no	ours of laboratory activity per	
	week.							
P:	Textbook	s and Materia	ls to be Purc	hased by Stu	dents:			
						th		
	Foreyt, W	.J., 2001, Veter	inary Parasit	tology Referei	nce Manual. 5	^m ed., Black	well Publishing.	
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	Hendrix, C	C.M., 2002, Lal						
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Course Designer(s) Diane Boyle, DVM / Pauline Chow, DVM

Education Council / Curriculum Committee Representative