



EFFECTIVE: SEPTEMBER 2008
CURRICULUM GUIDELINES

A. Division: **Education** Effective Date: September 2008

B. Department / Program Area: **Science & Technology** / **Animal Health Technology** Revision New Course

If Revision, Section(s) Revised:
Date of Previous Revision:
Date of Current Revision:

C: **AHTT 2309** D: **Veterinary Radiology 2** E: **3**

Subject & Course No.	Descriptive Title	Semester Credits
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<p>F: Calendar Description: Further instruction and practice in radiology, with problem solving and special techniques, such as advanced diagnostic imaging, are emphasized in this course. Dental radiology, and the technologist's role in the radiology of species other than cats and dogs is also covered in addition to patient preparation for both basic and advanced techniques in radiology. Enrolment is limited to students in the Animal Health Technology Program.</p>	
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<p>G: Allocation of Contact Hours to Type of Instruction / Learning Settings</p> <p>Primary Methods of Instructional Delivery and/or Learning Settings:</p> <p>Lecture / Laboratory Workplace Lab Instruction (WLI)</p> <p>Number of Contact Hours: (per week / semester for each descriptor)</p> <p>4 hours/week</p> <p>6 weeks: 2 hours lecture / 2 hours lab 6 weeks: 4 hours WLI in Veterinary Clinics 3 weeks: practicum / internship</p> <p>Number of Weeks per Semester:</p> <p>15 weeks</p>	<p>H: Course Prerequisites: AHTT 2109</p> <p>I: Course Corequisites: None</p> <p>J: Course for which this Course is a Prerequisite None</p> <p>K: Maximum Class Size: 30</p>
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L: PLEASE INDICATE:

	Non-Credit
X	College Credit Non-Transfer
	College Credit Transfer:

SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bctransferguide.ca)

M: Course Objectives / Learning Outcomes

Upon completion of this course students will be able to:

1. Evaluate radiographs and discuss correction of faults.
2. Recognize technical errors and artifacts on a radiograph, their causes and prevention.
3. Understand the positioning of equine patients for routine radiographic studies.
4. Explain and demonstrate the special radiographic techniques of the digestive and urinary systems.
5. Demonstrate the understanding of the techniques required to perform an upper G.I. study on a companion animal.
6. Formulate radiographic technique charts.
7. Discuss the legal ownership of radiographs and their proper handling.
8. Investigate the principles of digital radiography.
9. Discuss the basic fundamentals of ultrasonography.
10. Understand the basis of advanced imaging techniques such as CT and MRI.
11. Define radiotherapy and its indications.

N: Course Content

The major topics in the course include:

1. Evaluation of radiographic technique
 - review of quality and positioning of radiographic views
 - causes of common radiographic artifacts
 - discussion of processing errors
 - components of a diagnostic X-ray
 - formulation of multiple technique charts
2. Radiographic studies in the equine species
 - positioning of patients
 - considerations for portable and mobile X-ray units
 - techniques for developing X-rays in the field
3. Special radiographic techniques and studies
 - of the digestive system, including Barium studies
 - of the urinary system, including pyelograms and cystograms
4. Advanced imaging techniques
 - digital radiography
 - ultrasound
 - computed tomography
 - magnetic resonance imaging
5. Radiotherapy
 - indications and implications
 - use as a treatment modality

O: Methods of Instruction

This course involves two hours per week of classroom instruction and two hours per week of laboratory activity for six weeks. Students will also spend four hours per week for six weeks in Workplace Lab Instruction in small and large animal veterinary-related facilities to develop their practical skills. Finally, a three week practicum will allow students individual internship experience.

P: Textbooks and Materials to be Purchased by Students

Lavin, L.M., 2007*Radiography in Veterinary Technology*. Elsevier, 4th ed.

McCurnin, D.M. & Bassert, J.M., 2006*Clinical Textbook for Veterinary Technicians*. Elsevier, 6th ed.

Course Pack 2309: AHT Radiology Lab Materials & DVD's

Q: Means of Assessment

TYPE OF EVALUATION	PERCENTAGE (total 100%)
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Quizzes	15-30
Laboratory Assignments & Projects	25-40
Preparation, Participation & Attendance	10
Final Exam	20-35

Grades: A+ 95-100, A 90-94, A- 85-89, B+ 80-84, B 75-79, B- 70-74,
C+ 65-69, C 60-64, C- 55-59, P 50-54, F 0-49.

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

No

Pauline Chow, DVM

Course Designer(s)

Education Council / Curriculum Committee Representative

Dr. Sandy Vanderburgh

Dean / Director

Registrar