

Course Code: VTT 112

Course Title: Diagnostic Imaging

Department: Allied Health

Effective Date: Summer 2026

PCS Code: 1.2 - Occupational/Technical Instruction

CIP Code: 01.8301

Repeatability: 0

Credit Hours

Catalog Notation: 1-3-2

Credit Hour Distribution:

Lecture: 1

Lab: 3

Clinical: 0

Total: 2

General Course Information

Catalog Description

Positioning for common radiographic views taken of animals; emphasis on methods for obtaining high quality diagnostic radiographs and radiation safety.

General Course Objectives

Veterinary technicians have assumed the responsibility for taking x-rays in most veterinary hospitals. VTT 112 has been designed to educate students in all phases of veterinary radiology. In addition to operational skills, all areas of radiographic knowledge are covered comprehensively. This course prepares veterinary technicians to competently and safely carry out the radiographic duties that they will be assigned.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	Placement out of MAT 072

Prerequisites

Credit in VTT 110, VTT 113, VTT 114, VTT 116, VTT 119, and BIO 111

Admission into the Veterinary Technology program

Methods of Evaluation

2-4 comprehensive hourly examinations, comprehensive final examination, 2-4 lab quizzes, and a comprehensive lab practical.

Instructional Materials and Additional Supplies

Lavin's Radiography for Veterinary Technicians, current edition.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Introduction to Radiology	1. Define and demonstrate knowledge of the fundamental concepts of x-ray production.	2	3	0
Principles of Radiography	1. Define and demonstrate knowledge of the fundamental principles of the production of quality radiographs. 2. List information correctly into radiographic log. 3. List information for radiographic study correctly into medical record.	1	3	0
Exposure Quality	1. Identify what a quality radiograph is comprised of. 2. Demonstrate how to facilitate production of the best quality film possible. 3. Distinguish technical errors on a radiograph. 4. Use appropriate techniques to ensure that diagnostic radiographs are taken on the first exposure, to minimize the need for repeat exposures.	1	6	0
Technique Charts	1. Explain the function and need for a technique chart. 2. Create a variable kVp technique chart using appropriate procedures. 3. Evaluate the technique chart by taking radiographs of different body areas.	1	3	0
Safety	1. Explain the need for lead aprons, gloves, and thyroid collars. 2. Explain how to collimate the primary x-ray beam to minimize size consistent with procedure.	1	0	0
Positioning - Canine	1. Identify and demonstrate knowledge of the canine anatomy. 2. Follow proper positioning and technique for producing quality radiographs. 3. Distinguish the diseases and conditions which may prompt the x-ray procedure.	3	15	0
Positioning - Feline	1. Identify and demonstrate knowledge of the feline anatomy. 2. Follow proper positioning and technique for producing quality radiographs. 3. Distinguish the diseases and conditions which may prompt the x-ray procedure.	1	3	0
Dental Radiography	1. Perform proper positioning of the digital radiograph machine to obtain diagnostic views on both canine and feline patients. 2. Explain adjustment of the technique and saving an image to the portable computer system.	1	3	0
Special Procedures	1. Explain the need for special procedures that may be performed in radiology.	1	0	0
Equine Radiography	1. Identify and explain equine radiology techniques and positioning.	2	3	0
Exotics	1. Describe the different restraint techniques needed for safely obtaining quality radiographs for the diversity of the commonly seen exotic species.	1	0	0
Laboratory Practical	1. Initiate various positioning and radiographic techniques for evaluation.	0	6	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
15	45	0