STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY CANTON, NEW YORK



MASTER SYLLABUS

COURSE NUMBER – COURSE NAME VSCT 205 – Radiographic Techniques

CIP Code: 01.8301 For assistance determining CIP Code, please refer to this webpage <u>https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55</u> or reach out to Sarah Todd at todds@canton.edu

Created by: Wendy Kuceyeski, DVM

Updated by: Wendy Kuceyeski, DVM

School of Science, Health, and Criminal Justice

Department: Veterinary Science Technology

Semester/Year: Fall 2024

A. TITLE: Radiographic Techniques

B. COURSE NUMBER: VSCT 205

C. CREDIT HOURS: (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

Credit Hours: 2
Lecture Hours: 1 per week
Lab Hours: 2 per week
Other: per week

Course Length: 15 Weeks

- D. WRITING INTENSIVE COURSE: Yes \Box No \boxtimes
- E. GER CATEGORY: None: Yes: GER *If course satisfies more than one*: GER
- F. SEMESTER(S) OFFERED: Fall Spring Fall & Spring

G. COURSE DESCRIPTION:

This course is designed as an introduction to radiology and other types of imaging in a veterinary facility. Students will be required to position patients, calculate exposure values, exposed radiographic film, and process images manually and digitally. Students will be instructed on radiation hazards and how to avoid them. The use of ultrasound will be demonstrated and alternative technologies for imaging such as fluoroscopy, CT, MRI, endoscopy, and nuclear scintigraphy will be discussed.

H. PRE-REQUISITES: None \Box Yes \boxtimes If yes, list below:

VSCT 112, 114, and 115.

CO-REQUISITES: None \boxtimes Yes \square If yes, list below:

I. STUDENT LEARNING OUTCOMES: (see key below)

By the end of this course, the student will be able to:

Course Student Learning Outcome	Program Student		<u>ISLO & SUBSETS</u>
<u>[SLO]</u>	<u>Learning</u>	<u>GER</u>	
	Outcome		
	[PSLO]	Applicable	

Define common terms associated with taking a radiograph such as kVp, mAs, etc.		5-Ind, Prof, Disc, Know ISLO ISLO	Skills Subsets Subsets Subsets Subsets
List hazards associated with the use of radiographic equipment.		5-Ind, Prof, Disc, Know ISLO ISLO	Skills Subsets Subsets Subsets Subsets
Use appropriate terminology for alternative imaging technologies.		5-Ind, Prof, Disc, Know ISLO ISLO	Skills Subsets Subsets Subsets Subsets
Position, measure, label, and collect radiographic images of live specimens.	AVMA #3 Nursing AVMA #7 Imaging	5-Ind, Prof, Disc, Know ISLO ISLO	Skills Subsets Subsets Subsets Subsets
Identify and critique finished radiographs and make suggestions for improvement.	AVMA #7 Imaging	2-Crit Think 5-Ind, Prof, Disc, Know ISLO	Subsets Skills Subsets Subsets Subsets
		ISLO ISLO ISLO	Subsets Subsets Subsets Subsets

KEY	Institutional Student Learning Outcomes [ISLO 1 – 5]
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking Critical Analysis [CA], Inquiry & Analysis [IA], Problem Solving [PS]
3	Foundational Skills

	Information Management [IM], Quantitative Lit,/Reasoning [QTR]
4	Social Responsibility <i>Ethical Reasoning [ER], Global Learning [GL],</i> <i>Intercultural Knowledge [IK], Teamwork [T]</i>
5	Industry, Professional, Discipline Specific Knowledge and Skills

*Include program objectives if applicable. Please consult with Program Coordinator

J. APPLIED LEARNING COMPONENT:

Yes 🛛 No 🗌

If YES, select one or more of the following categories:

- Classroom/LabCivic EngagementInternshipCreative Works/Senior ProjectClinical PlacementResearchPracticumEntrepreneurshipService Learning(program, class, project)Community ServiceCommunity Service
- K. <u>TEXTS</u>:

N/A

L. REFERENCES:

Lavin, Lisa M. Radiography in Veterinary Technology, Saunders Elsevier, 2007.

M. EQUIPMENT: None Needed: Equipment and supplies provided by the program; subscription to Trajecsys for essential skill tracking; scrub set and closed toed shoes.

N. GRADING METHOD: A-F

O. SUGGESTED MEASUREMENT CRITERIA/METHODS:

Quizzes Exams Practical Exam Scored Radiographic Images

P. DETAILED COURSE OUTLINE:

Fundamentals of Radiology Imaging the Abdomen Imaging the Thorax Imaging the Spine Imaging the Thoracic Limb Imaging the Pelvic Limb Imaging the Skull/Dental Radiographs Contrast Studies Advanced Imaging Equine Radiology Exotics/Avian Radiology Processing Film Radiographs

Q. LABORATORY OUTLINE: None \Box Yes \boxtimes

Lab #1 Safety and Basics/Labeling Radiographs Lab #2 Producing an Image/Terms/Technique Charts Lab #3 Abdominal Radiographs Lab #4 Thoracic Radiographs Lab #5 Spinal Radiographs Lab #6 Thoracic Limb Radiographs Lab #7 Laboratory Practical Lab #8 Pelvic Limb Radiographs Lab #9 Skull/Dental Radiographs Lab #10 Contrast Studies Lab #11 Advanced Imaging Lab #12 Make up lab Lab #13 Equine Radiology