MASTER SYLLABUS

COURSE NUMBER – COURSE NAME
VSCT 205 – Radiographic Techniques

CIP Code: 01.8301
For assistance determining CIP Code, please refer to this webpage https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55
or reach out to Sarah Todd at todd@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 ☐ No ☑

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 ☐ Yes ☑ If yes, list below:

VSCT 112, 114, and 115.

CO-REQUISITES: None ☒ Yes ☐ If yes, list below:

I. STUDENT LEARNING OUTCOMES: (see key below)

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

<table>
<thead>
<tr>
<th>Course Student Learning Outcome [SLO]</th>
<th>Program Student Learning Outcome [PSLO]</th>
<th>GER [If Applicable]</th>
<th>ISLO &amp; SUBSETS</th>
</tr>
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<tbody>
<tr>
<td>ISLO #</td>
<td>Communication Skills</td>
<td>Critical Thinking</td>
<td>Foundational Skills</td>
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<tr>
<td>1</td>
<td>Oral [O], Written [W]</td>
<td>Critical Analysis [CA], Inquiry &amp; Analysis [IA], Problem Solving [PS]</td>
<td>Define, Descriptive, Analytic, Interpretive</td>
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<tr>
<td>2</td>
<td></td>
<td></td>
<td>List, Measure, Evaluate, Synthesize</td>
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<tr>
<td>3</td>
<td></td>
<td></td>
<td>Use, Implement, Apply, Integrate</td>
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<tr>
<td>4</td>
<td></td>
<td></td>
<td>Position, Measure, Label, Collect</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>Identify, Critique, Improve</td>
</tr>
</tbody>
</table>

**ISLO & Subsets**

- ISLO 1: Communication Skills
  - Oral [O], Written [W]
- ISLO 2: Critical Thinking
  - Critical Analysis [CA], Inquiry & Analysis [IA], Problem Solving [PS]
- ISLO 3: Foundational Skills
  - Define, Descriptive, Analytic, Interpretive
  - List, Measure, Evaluate, Synthesize
  - Use, Implement, Apply, Integrate
  - Position, Measure, Label, Collect
  - Identify, Critique, Improve
Information Management [IM], Quantitative Lit./Reasoning [QTR]

4 Social Responsibility
   Ethical Reasoning [ER], Global Learning [GL],
   Intercultural Knowledge [IK], Teamwork [T]

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/Lab
   □ Internship
   □ Clinical Placement
   □ Practicum
   □ Service Learning
   □ Community Service
   □ Civic Engagement
   □ Creative Works/Senior Project
   □ Research
   □ Entrepreneurship
   (program, class, project)

K. TEXTS:

   N/A

L. REFERENCES:


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 ☐ Yes ☒

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