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

MASTER SYLLABUS

COURSE NUMBER – COURSE NAME
VSCT 114 – Animal Anatomy and Physiology

CIP Code: 01.8301
For assistance determining CIP Code, please refer to this webpage
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: Spring 2025
A. TITLE: Animal Anatomy and Physiology

B. COURSE NUMBER: VSCT 114

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

- # Credit Hours: 3
- # Lecture Hours: 2 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:

An introduction to the fundamental understanding of animal structure and function. Emphasis placed on the practical aspects of anatomy and physiology of different species. Discussion will include tissues, organs, and body systems which make up the living organism.

H. PRE-REQUISITES: None ☐ Yes ☒ If yes, list below:

VSCT 101 and BIOL 150

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>
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<tbody>
<tr>
<td>1. Identify the bones and functions of the appendicular skeleton. Recognize these bones in radiographic images.</td>
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2. Name and relate the function of many of the muscles and joints in the body.

3. Name the structures in the circulatory system and their functions, and describe some of the common conditions of the circulatory system.

4. Name the parts of the respiratory system and describe some of the common disease conditions of the respiratory tract.

5. Name the parts of the digestive system and relate the steps of the digestive process, and describe some of the common disease conditions of the digestive tract.

6. Recognize the parts of the urinary tract and be able to describe how the urinary system works, and describe some of the common diseases of the urinary system.

7. List the various endocrine organs, their functions, and some endocrine disease conditions.

8. Identify parts of the reproductive system and relate normal gestation lengths and stages of the estrous cycle; describe some common diseases of the reproductive system.

9. Identify parts of the eye and ear and describe how these organs work.

10. List the differences in anatomy of other species (avian, reptilian, amphibian) from mammalian.

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<thead>
<tr>
<th>KEY</th>
<th>Institutional Student Learning Outcomes [ISLO 1 – 5]</th>
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<tbody>
<tr>
<td>ISLO #</td>
<td>ISLO &amp; Subsets</td>
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</table>
| 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  
   Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T] |
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: Subscription to Trajecsys for essential skill tracking; specimens and supplies provided by the program; scrub set and closed toed shoes.

N. GRADING METHOD: A-F

O. SUGGESTED MEASUREMENT CRITERIA/METHODS:

- Quizzes
- Exams
- Practical exam

P. DETAILED COURSE OUTLINE:

1. Introduction to anatomy
2. Integumentary system
3. Muscular system
4. Skeletal system
5. Radiographic skeletal anatomy
6. Nervous system
7. Sensory organs
8. Endocrine system
9. Blood/lymphatics
10. Cardiovascular
11. Respiratory system
12. Digestive system
13. Urinary system
14. Lactation/pregnancy/repro
15. Soft tissue radiographic anatomy
16. Avian anatomy
17. Reptile/amphibian anatomy

Q. LABORATORY OUTLINE: None ☐ Yes ☒

Week 1 Integumentary system
Week 2 Muscular system
Week 3 Skeletal system
Week 4 Nervous system
Week 5 Endocrine system
Week 6/7 Cardiovascular system
Week 8 Respiratory systems
Week 9/10 Digestive system
Week 11 Urinary system
Week 12 Lactation/pregnancy
Week 13 Large animal
Week 14 Avian/reptile/amphibian anatomy
Week 15 Practical exam