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
https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55
or reach out to Sarah Todd at todds@canton.edu

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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:

Course Student Learning Outcome [SLO]	***Program Student Learning Outcome [PSLO]***	***GER*** *[If Applicable]*	***ISLO & SUBSETS***	
1. Identify the bones and functions of the appendicular skeleton. Recognize these bones in radiographic images.			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets

2. Name and relate the function of many of the muscles and joints in the body.			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
3. Name the structures in the circulatory system and their functions, and describe some of the common conditions of the circulatory system.			2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	Subsets Subsets Subsets Subsets
4. Name the parts of the respiratory system and describe some of the common disease conditions of the respiratory tract.			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
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.			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
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.			2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	Subsets Subsets Subsets Subsets
7. List the various endocrine organs, their functions, and some endocrine disease conditions.			2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	Subsets Subsets Subsets Subsets
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.			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
9. Identify parts of the eye and ear and describe how these organs work.			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
10. List the differences in anatomy of other species (avian, reptilian, amphibian) from mammalian.			5-Ind, Prof, Disc, Know Skills 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** *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:

Colville, Thomas, and Bassert, Joanna. Clinical Anatomy and Physiology for Veterinary Technicians 2nd edition. St. Louis: Mosby 2008.

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