

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



**COURSE OUTLINE**

**VSCT 114 – ANIMAL ANATOMY AND PHYSIOLOGY**

**PREPARED BY: TONY BEANE, DVM**

**SCHOOL OF SCIENCE, HEALTH, AND CRIMINAL JUSTICE  
VETERINARY SCIENCE TECHNOLOGY  
MAY 2015**

- A. TITLE: ANIMAL ANATOMY AND PHYSIOLOGY**
- B. COURSE NUMBER: VSCT-114**
- C. CREDIT HOURS: 3**
- D. WRITING INTENSIVE COURSE: No**
- E. COURSE LENGTH: 15 weeks**
- F. SEMESTER(S) OFFERED: Spring**
- G. HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY: 2 hours lecture, 2 hours laboratory per week**
- H. CATALOG 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 mammalian organism.**
- I. PRE-REQUISITES/CO-COURSES: Pre-requisite courses:VSCT-101 Vet Nursing I and BIO-150 College Biology I**
- J. GOALS (STUDENT LEARNING OUTCOMES):  
By the end of this course, the student will:**

| <i>Course Objective</i>  | <i>Institutional SLO</i>                            |
|--|---|
| a. identify the bones and functions of the appendicular skeleton.  | <b>3. Prof. Competence</b>                          |
| b. recognize the bones and the significance of the appendicular skeleton.  | <b>3. Prof. Competence</b>                          |
| c. name and relate the function of many of the muscles and joints in the body.   | <b>3. Prof. Competence</b>                          |
| d. name the structures in the circulatory system and their functions.  | <b>2. Critical Thinking<br/>3. Prof. Competence</b> |
| e. name the parts of the respiratory system and describe some of the common disease conditions of the respiratory tract. | <b>3. Prof. Competence</b>                          |
| f. name the parts of the digestive system and relate the steps of the digestive process.                                 | <b>3. Prof. Competence</b>                          |
| g. recognize the parts of the urinary tract and be able to describe how the urinary system works.                        | <b>2. Critical Thinking<br/>3. Prof. Competence</b> |
| h. list the various endocrine organs, their functions and some endocrine disease conditions.                             | <b>2. Critical Thinking<br/>3. Prof. Competence</b> |
| i. identify parts of the reproductive system and relate normal gestation lengths and stages of the estrous cycle.        | <b>3. Prof. Competence</b>                          |
| j. identify parts of the eye and ear and describe how these organs work.   | <b>3. Prof. Competence</b>                          |

**K. TEXTS:**

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

**L. REFERENCES:**

Bone, Jesse. Animal Anatomy and Physiology 3<sup>rd</sup> edition. Englewood Cliffs, NJ: Prentice-Hall, 1988.

**M. EQUIPMENT:**

Technology enhanced classroom

**N. GRADING METHOD: A-F**

**O. MEASUREMENT CRITERIA/METHODS:**

Quizzes  
Exams  
Practical Exam

**P. DETAILED COURSE OUTLINE:**

1. Introduction to Anatomy and Physiology
2. The Skeletal System
3. The Joints
4. The Muscular System
5. The Circulatory System
6. The Respiratory System
7. The Digestive System
8. The Urinary System
9. The Endocrine System
10. The Reproductive System
11. The Eye and Ear
12. The Nervous System

**Q. LABORATORY OUTLINE:**

|        |                                  |
|--------|----------------------------------|
| Week 1 | bones and radiographs            |
| Week 2 | bones, radiographs and skeletons |
| Week 3 | bones, radiographs and skeletons |
| Week 4 | muscles, joints                  |
| Week 5 | heart                            |
| Week 6 | respiratory system               |
| Week 7 | teeth, G.I. system               |
| Week 8 | digestion                        |

|         |                |
|---------|----------------|
| Week 9  | kidney         |
| Week 10 | endocrine      |
| Week 11 | endocrine      |
| Week 12 | reproduction   |
| Week 13 | eye and ear    |
| Week 14 | nervous system |
| Week 15 | practical exam |