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:

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


L. **REFERENCES:**


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