

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



**COURSE OUTLINE**

**VSCT 214- VETERINARY PHARMACOLOGY**

**Prepared By: TONY BEANE, DVM**

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

- A. **TITLE:** Veterinary Pharmacology
- B. **COURSE NUMBER:** VSCT- 214
- C. **CREDIT HOURS:** 2
- D. **WRITING INTENSIVE COURSE:** No
- E. **COURSE LENGTH:** 15 weeks
- F. **SEMESTER(S) OFFERED:** Spring
- G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**  
1 hour lecture, 2 hours recitation

**H. CATALOG DESCRIPTION:**

The course is designed for Veterinary Science Technology students as an introduction to Pharmacology. The various classes of drugs used in veterinary medicine will be discussed in regard to use, side effects, contraindications, method of administration, etc. Drug math will be emphasized including CRI and other calculations related to drug use. Upon completion of this course, a student should have familiarity with many of the commonly used drugs in a veterinary hospital.

- I. **PRE-REQUISITES:** VSCT-202 Veterinary Clinical Pathology II, VSCT-203 Small Animal Medicine and Therapeutic Techniques, VSCT-206 Anesthetic Principles.

**J. GOALS (STUDENT LEARNING OUTCOMES):**

| <b><i>Course Objective</i></b>  | <b><i>Institutional SLO</i></b>                     |
|---|---|
| a. discuss drug information sources, controlled substances and prescription writing.  | <b>2. Critical Thinking<br/>3. Prof. Competence</b> |
| b. list the mechanisms of drug absorption, distribution, metabolism, and excretion.   | <b>3. Prof. Competence</b>                          |
| c. recognize many of the commonly used antibiotics, antifungals and insecticides used in veterinary medicine.                         | <b>3. Prof. Competence</b>                          |
| d. discuss the indications, side effects, and contraindications for many of the cardiology, renal and diabetes drugs used in animals. | <b>2. Crit. Thinking<br/>3. Prof. Competence</b>    |
| e. perform drug math calculations for cases presented in class.   | <b>2. Crit. Thinking<br/>3. Prof. Competence</b>    |

**K. TEXTS:**

Wanamaker, B., Massey, K. Applied Pharmacology for the Veterinary Technician 5<sup>th</sup> edition. St. Louis, MO: Elsevier, 2015

Beane, Tony. Veterinary Pharmacology Note Packet. 2015

**L.     REFERENCES:**

Bassert, J and McCurnin, D. Clinical Textbook for Veterinary Technicians, St. Louis, MO: Elsevier, 2010

Bill, R. Pharmacology for Veterinary Technicians 2<sup>nd</sup> edition, St. Louis, MO: Mosby, 1997

**M.     EQUIPMENT:**

Technology enhanced classroom

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

**O.     MEASUREMENT CRITERIA/ METHODS:**

Quizzes  
Exams

**P.     DETAILED COURSE OUTLINE:**

1. Introduction to Pharmacology
2. Drug Control and the Approval Process for New Drugs
3. Controlled Substances
4. Prescription Writing
5. Principles of Pharmacology
6. Antimicrobial Drugs
7. Antifungal Drugs
8. Antiparasitic Drugs
9. Cardiovascular/ Renal Drugs
10. Endocrine Drugs
11. Anti-Inflammatory Drugs
12. Nervous System Drugs
13. Gastrointestinal Drugs
14. Respiratory Drugs
15. Chemotherapeutic Drugs

**Q.     LABORATORY OUTLINE:                    N/A**