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

MASTER SYLLABUS

COURSE NUMBER – COURSE NAME
VSCT 214 – Veterinary Pharmacology

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

Created by: Wendy Kuceyeski, DVM

Updated by: Wendy Kuceyeski, DVM

School of Science, Health, and Criminal Justice

Department: Veterinary Science Technology

Semester/Year: Fall 2024

A. **TITLE:** Veterinary Pharmacology

B. **COURSE NUMBER:** VSCT 214

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

 # Credit Hours: 2
 # Lecture Hours: 2 **per week**
 # Lab Hours: 0 **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:**

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.

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

VSCT 114 and VSCT 115

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*

Discuss drug information sources, controlled substances and prescription writing.	AVMA #2 Pharmacy and Pharmacology		2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	Subsets Subsets Subsets Subsets
List the mechanisms of drug absorption, distribution, metabolism, and excretion.	AVMA #2 Pharmacy and Pharmacology		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
Recognize many of the commonly used antibiotics, antifungals, and insecticides used in veterinary medicine.	AVMA #2 Pharmacy and Pharmacology		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
Discuss the indications, side effects, and contraindications for many of the commonly used veterinary drugs.	AVMA #2 Pharmacy and Pharmacology		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
Perform drug math calculations for cases presented in class.	AVMA #2 Pharmacy and Pharmacology		2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	Subsets Subsets Subsets Subsets
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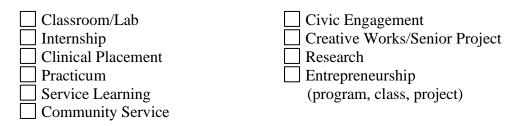| KEY	Institutional Student Learning Outcomes [ISLO 1 – 5]
ISLO #	ISLO & Subsets
1	**Communication Skills** Oral [O], Written [W]
2	**Critical Thinking** *Critical Analysis [CA] , Inquiry & Analysis [IA] , Problem Solving [PS]*
3	**Foundational Skills**

	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   ☐ Civic Engagement
☐ Internship   ☐ Creative Works/Senior Project
☐ Clinical Placement   ☐ Research
☐ Practicum   ☐ Entrepreneurship
☐ Service Learning   (program, class, project)
☐ Community Service

K. TEXTS:

N/A

L. REFERENCES:

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

Plumb, Donald C. Plumb's Veterinary Drug Handbook 9th edition. Stockholm, WI: PharmaVet Inc, 2018.

M. EQUIPMENT: **None** ☐   **Needed:** Subscription to Trajecsys for essential skill tracking.

N. GRADING METHOD: A-F

O. SUGGESTED MEASUREMENT CRITERIA/METHODS:

Quizzes
Exams
Worksheets

P. DETAILED COURSE OUTLINE:

Course introduction and syllabus
General Pharmacology
Administration and prescriptions
Practical calculations
Controlled substances/Plumb's

Nervous system disorder drugs
Respiratory system disorder drugs
Renal/urinary tract disorder drugs
Cardiovascular disorder drugs
GI system disorder drugs
Hormonal/endocrine/reproductive disorder drugs
Ophthalmic/otic drugs
Skin disorder drugs
Anti-infective drugs
Antiparasitic drugs
Pain/anti-inflammatory drugs
Therapeutic nutritional/electrolytes
Blood modifying/antineoplastic/immunosuppressant drugs
Immunological drugs
Antidotes
Nutraceuticals
Miscellaneous therapeutic agents
Behavioral modification drugs
Poisonous plants
Inventory of drugs

Q.   LABORATORY OUTLINE: **None** ☒ **Yes** ☐