VETERINARY PHARMACOLOGY — VTEC 1210

A. Course Description
   ○ Credits: 3.00
   ○ Lecture Hours/Week: 3.00
   ○ Lab Hours/Week: 0.00
   ○ OJT Hours/Week: 0
   ○ Prerequisites: None
   ○ Corequisites: None
   ○ MnTC Goals: None

This course introduces the student to the development and regulation of drugs and vaccines and their use in veterinary medicine. Commonly used drugs are studied using a body systems approach. Calculation of drug dosages is emphasized and techniques for medication administration to canine and feline patients are also covered. Prerequisites: BIOL 1310, HEAL 1502

B. Course Effective Dates: 8/21/17 – Present

C. Outline of Major Content Areas
   As noted on course syllabus

D. Learning Outcomes
   1. Calculate the correct dosages of drugs and fluids.
   2. Demonstrate the ability to accurately draw up a specific measure of a medication using a variety of syringe sizes.
   3. Demonstrate the ability to properly calculate and prepare medications for dispensing by reading and following veterinarian’s pharmacy orders, and label and package dispensed drugs correctly.
   4. Describe the different types of vaccines and the advantages and disadvantages of adjuvants.
   5. Develop and provide client education regarding common vaccine protocols for dogs and cats in a clear and accurate manner at a level the client understands.
   6. Differentiate between normal and abnormal responses to medication.
   7. Discuss the diseases against which dogs and cats are routinely vaccinated, as well as the possible zoonotic effects of these diseases.
   8. Employ ampules in a safe and efficient manner.
9. Express to clients clear and accurate information regarding the reasons for use of a drug; its handling, storage, and administration; possible side effects; and potential drug interactions.

10. Identify correct medications and preventatives for parasitic conditions.

11. Illustrate how to accurately reconstitute medications.

12. Recognize and explain in a safe and effective manner how vaccines must be stored and administered and the potential side effects and allergic reactions.

13. Recognize groups of drugs, their mechanisms, and clinically relevant side effects, and understand their use relevant to the various body systems.

14. Record drug-related information correctly into an animal’s medical chart.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted