BIOMED 3326

PRINCIPLES OF VETERINARY PHARMACOLOGY

*COURSE PROFILE*

COURSE DESCRIPTION

Veterinary medicine is a wonderful field of study. Whether you aspire to become a veterinary technician or pursue an advanced degree and become a veterinarian, pharmacology will be an integral part of your studies. You will need to have a working knowledge of fundamental pharmacology including basic pharmacy calculations. In this course we will discuss the basics of pharmacy terminology, pharmacokinetics and pharmacodynamics. We will then address individual organ systems starting with basic physiology followed by the basic pharmacology of those same organ systems as they relate to veterinary species.

INSTRUCTOR

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MAJOR OBJECTIVES

After completion of the course, a student will be able to:

1. Demonstrate competency in pharmacy terminology
2. Demonstrate competency in prescription and drug regulations
3. Identify the mechanisms of pharmacokinetics and pharmacodynamics
4. Demonstrate competency in basic pharmaceutical calculations
5. Become familiar with basic physiology and pharmacology of major organ systems as they relate to veterinary species

PREREQUISITES

An AAS degree in veterinary technology or AN SCI 3254 Physiology of Domestic Animals or BIOSC 3700, or equivalent, or instructor’s consent.

DELIVERY

This course is delivered completely online. Students are not required to attend class at regular times; however, it is important that they follow the attendance/participation guidelines and meet the due dates and deadlines for readings, quizzes, and exams. Communications will be through discussion board, announcements, and e-mails.

Course delivery strategies may include: reading from required textbook(s), reading resources linked to the internet, use of the discussion board, use of the internet, and e-mails.

ORGANIZATION

Course materials are located under the left-hand tab in the course Canvas site under **Modules**. **Weeks** are found under **Modules**, and **Sessions** under the Weeks.

REQUIRED MATERIALS

Romich, JA. Fundamentals of Pharmacology for Veterinary Technicians, 3rd ed. Cengage Learning. 2020

*EVALUATION OF STUDENT PERFORMANCE*

SATISFACTORY PERFORMANCE

Satisfactory performance in this class is overall is a 70% average or better. There are no grading curves.

EXAMS/QUIZZES

There will be 4 exams during the semester, all proctored. The first 3 exams will be worth 100 points each and the final exam, which is cumulative, is worth 200 points.

In addition to the exams, there will be the following:

1. QUIZZES:
   1. There will be ten (10) quizzes over weekly terminology or vocabulary. These are worth 25 points each.
   2. There will be one (1) quiz during week #3 which will include both terminology and calculations. This quiz will be worth 65 points.
2. CASE-BASED LEARNING: During the semester there will be three (3) case-based learning (CBL) problems. They will be more in a discussion format and will be worth 45 points each. Each learning exercise will also include calculations.
3. CROSSWORD PUZZLE: During week #16 I will post a crossword puzzle that will consist of terminology that has been covered during the semester. The crossword puzzle will be worth 50 points.

There will be a total of 1000 points available for the semester.

As discussed above, one of the objectives this semester is to feel more comfortable and competent with basic pharmacy calculations. Therefore, there may be calculation questions on any and all exams.

GRADING

Grades for this course will be scaled A through F. There will be no A+ assigned. The following scale will be utilized:

96-100% = A 81-83% = B-

91-95% = A- 71-80% = C

88-90% = B+ 61-70% = D

84-87% = B 60% or less = F

Note: A Certificate in Biomedical Technology requires at least a “C” grade in this course, plus a total of 15 cr hr BIOMED courses with an average GPA in all BIOMED courses of 3.0.