

VETT 212
Veterinary Pharmacology and Toxicology
3 Credits

Community College of Baltimore County
Common Course Outline

Description

VETT 212 – Veterinary Pharmacology and Toxicology: introduces the study of drugs and their effects on animals, including toxicology. The course emphasizes dosage and preparation of medications. Specific information on the classes of medications used in animal species, indications, contraindications, and side effects is included. The course provides information regarding the storage, handling, dispensing, and disposal of medications, as well as legal requirements related to their use.

Pre-requisite(s): VETT 107, VETT 109, VETT 111

Co-requisite(s): VETT 112, VETT 113, VETT 114

Overall Course Objectives

Upon completion of this course, students will be able to:

1. discuss general pharmacology, pharmacotherapeutics, pharmacokinetics, pharmacodynamics, and drug interactions;
2. identify drug classifications and action of selected medications;
3. list commonly used approved abbreviations (system of measurement, prescriptions);
4. discuss routes and demonstrate techniques of drug administration (dosage forms, administration, medication orders, labeling, controlled substances, client education);
5. perform medical math calculations (dosage, solutions, percent concentrations, IV administration, and Constant Rate Infusions);
6. discuss and compare drugs used to treat disorders of various animal body systems (nervous, respiratory, renal and urinary tract, cardiovascular, gastrointestinal, endocrine, etc.);
7. compare and contrast anti-infective drugs (mechanism of actions, indications, side effects and contraindications);
8. discuss drugs used to relieve pain and inflammation (mechanism of actions, indications, side effects and contraindications);
9. explain the veterinary technician's role in managing inventory;
10. identify medication side effects, adverse reactions and their implications;
11. utilize the Veterinary Technician National Examination (VTNE) question format and practice with sample questions; and
12. demonstrate competency on the dosage exam by scoring a minimum of 90%.

Major Topics

- I. General pharmacology
- II. Practical calculations
- III. VTNE Test Prep

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

- IV. Drugs used to treat disorders in major small animal body systems
- V. Anti-infective drugs
- VI. Drugs used to treat pain and inflammation
- VII. Systems of weights and measures
- VIII. Selected surgical procedures

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Two examinations
- One dosage exam with a minimum score of 90%

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the most current APA format.

Other Course Information

An overall grade of “C” (70%) or higher is required for satisfactory completion of the course.

Date Revised: 3/4/2025