JEFFERSON COLLEGE
COURSE SYLLABUS

VAT 106

APPLIED PHARMACOLOGY

3 Credit Hours

Prepared by
Dr. Robin Duntze

Dean, Dr. John Keck
1. CATALOG DESCRIPTION

Prerequisite: Completion of the first semester of the program. 3 semester hours credit

Applied Pharmacology provides the principles of pharmacy management, record keeping, and classification of drugs. It also covers pharmacological concepts applicable to veterinary medicine, prescriptions, preparation of medication for dispensing, administration of medication, and interaction of drugs within various animal species.

[1. EXPECTED LEARNING OUTCOMES

To provide students with critical thinking skills in applied pharmacology, medical math, pharmacy management, and controlled drugs consistent with the AVMA’s Veterinary Technology First Year Task List.

III. COURSE OUTLINE

A. Introduction, Terminology
B. Pharmaceutical Arithmetic and Metrology
C. General Principles of Pharmacology
D. Antimicrobials
E. Disinfectants/Insecticides
F. CNS Drugs
G. ANS Drugs
H. Respiratory Drugs
1. Cardiovascular Drugs
J. Endocrine/Reproductive Drugs
K. Antipyretics/Antiinflammatories
L. Antiparasitics
M. Chemotherapy

IV. UNIT OBJECTIVES

Upon completion of this course, the student will be able to:

A. Introduction, Terminology

Understand terminology, pharmacy management, record keeping, dispensing, and prescriptions.

B. Pharmaceutical Arithmetic and Metrology

Understand how to perform dosage calculations, fluid rates, and conversions.
C. General Principles of Pharmacology

Understand half-life, therapeutic dose, routes of administration, and how drugs are absorbed, distributed, metabolized, and eliminated from the body.

D. Antimicrobials

Understand the principles of antimicrobial therapy including factors influencing development of resistant bacteria.

E. Disinfectants/insecticides

Understand principles of disinfection. Understand how insecticides are used including human and animal safety as well as adverse environmental effects.

Units F-M

CNS Drugs, ANS Drugs, Respiratory Drugs, Cardiovascular Drugs, Endocrine/Reproductive Drugs, Antipyretics/Antiinflammatories, Antiparasitics, Chemotherapy

Understand how drugs affect various body systems. Understand dosage forms, routes of administration, and desired and adverse effects of drugs.

V. METHODS OF INSTRUCTION

Lecture: MWF, 11:00 a.m. - 11:50 a.m.

VI. REQUIRED TEXTBOOK

*Clinical pharmacology and Therapeutics for the Veterinary Technician 3rd Ed. By Robert L. Bill*

VII. SUPPLEMENTAL REFERENCES

*Clinical Veterinary Pharmacology, Dan W. Upson Veterinary Drug Handbook, Donald Plumb*

VIII. METHOD OF EVALUATION

A. Distribution of the Final Grade (200 Point Total)

1. 150 points-quizzes (15 pts. each)

2. 50 point cumulative final examination
B. Assignment of Final Letter Grades

1. A = 90-100%
2. B = 80-89%
3. C = 70-79%
4. D = 60-69%
5. F = below 60%

Program Attendance policy – There are no excused absences. Students may miss 2 times with no point deductions, after that point deductions will accumulate. Students will lose 1 point for each lecture missed, and 5 points per lab. If a student has more than 10 absences including the first two, he or she will be advised to drop from the course to avoid receiving a grade of F for the course.

Students who are more than 10 minutes tardy for class will be counted as absent for that day.

Students may miss one exam with no penalty; for each subsequent exam missed the student is penalized 10% of the total value of the exam

If the paper or checklist are turned 1 class late, they will be penalized 10%, two classes late they will be penalized 50%, after that they will receive a 0.

The instructor may make exceptions to this policy in certain cases such as illness requiring hospitalization or death in the family etc.

academic honesty: Students must comply with campus policies as stated in the Student Handbook. Students proven to be in violation of academic honesty policy and procedure as outlined in the Student Handbook will receive an F for the course as part of the course evaluation, regardless of prior academic standing

Students requiring accommodations for disabilities should notify the instructor. The ADA student contact is Sundaye Harrison, ext. 169

Students need to behave in a respectful manner towards other students and the instructor. Cell phones, iPods, and similar devices are not to be used in class.

The instructor reserves the right to change this syllabus at any time.