JEFFERSON COLLEGE

COURSE SYLLABUS

VAT263

EQUINE TECHNOLOGY

2 Credit Hours

Prepared by:

Dana Nevois, MBA, BS, RVT
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Mary Beth Ottinger, Ph.D., Division Chair, Business & Technical Education
Dena McCaffrey, Ed.D., Interim Dean, Career & Technical Education
VAT263 EQUINE TECHNOLOGY

I. CATALOGUE DESCRIPTION

A. Prerequisites: VAT101, VAT106, VAT113, VAT114 and VAT199 with a grade of “C” or better.

B. 2 semester hours credit

C. Equine Technology familiarizes the student with equine anatomy, physiology, nutrition, diseases, restraint, surgical procedures, nursing, clinical pathology, radiography, and grooming. A laboratory session is included to allow students practice of techniques learned in the classroom. (F)

II. EXPECTED LEARNING OUTCOMES/ASSESSMENT MEASURES

<table>
<thead>
<tr>
<th>Student will recognize the topographical and skeletal anatomy of the horse to enable assistance in various medical and surgical procedures</th>
<th>In-class exercises, exams, observation of students during laboratory sessions, and final exam</th>
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<tbody>
<tr>
<td>Students will demonstrate various physical restraint techniques, injection and oral medication techniques, and a complete physical exam</td>
<td>In-class exercises, exams, observation of students during laboratory sessions, and final exam</td>
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<tr>
<td>Students will identify the basic nutritional requirements of horses in various life stages, judge the adequacy of different equine diets, and demonstrate basic husbandry requirements</td>
<td>In-class exercises, exams, observation of students during laboratory sessions, and final exam</td>
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<tr>
<td>Students will identify various equine breeds and summarize how to properly judge and age a horse based on conformation</td>
<td>In-class exercises, exams, observation of students during laboratory sessions, and final exam</td>
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<tr>
<td>Students will summarize and demonstrate various techniques and procedures used in equine radiology</td>
<td>In-class exercises, exams, observation of students during laboratory sessions, and final exam</td>
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<td>Students will recognize general anesthetics and sedatives used in equine practice, demonstrate common surgical nursing techniques and medical nursing techniques including bandaging, and demonstrate proper surgical assistance technique</td>
<td>In-class exercises, exams, observation of students during laboratory sessions, and final exam</td>
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<tr>
<td>Students will recognize and identify common medical problems such as signs of common infectious and non-infectious equine diseases, including Colic, internal and external parasites of equine, and summarize appropriate prevention, diagnostic and treatment procedures</td>
<td>In-class exercises, exams, observation of students during laboratory sessions, and final exam</td>
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<tr>
<td>Students will demonstrate knowledge of and summarize the history of the equine industry in the United States</td>
<td>In-class exercises, exams, and comprehensive final exam</td>
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### Students will recognize common dental procedures and techniques used in equine dentistry, summarize various diagnostic procedures commonly used in equine medicine, demonstrate knowledge of disease prevention, and summarize various equine vaccination protocols

<table>
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<tr>
<th>Students will summarize the equine reproduction system, gestation period, and parturition methods including basic nursing and medical care of the foal and brood mare and sheath cleaning in males.</th>
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<tr>
<td>In-class exercises, exams, observation of students during laboratory sessions, and final exam</td>
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### III. COURSE OUTLINE

A. Topographical and Skeletal Anatomy of the Equine
   - 1. Topographical anatomy
   - 2. Skeletal anatomy

B. Physical Restraint and Physical Exam
   - 1. Physical restraint techniques
   - 2. Components of a complete physical exam

C. Nutrition, Feeding, and Basic Care
   - 1. Basic nutritional requirements for various life stages
   - 2. Basic husbandry requirements

D. Injection and Oral Medication Techniques
   - 1. Common injection techniques
   - 2. Common oral medication techniques

E. Breeds, Conformation, Judging, and Aging
   - 1. Horse breeds
   - 2. Knowledge of judging and horse conformation
   - 3. Properly aging a horse

F. Radiology and Anesthesia
   - 1. Sedatives and general anesthetics commonly used in equine practice
   - 2. Techniques and practices of equine radiology
G. Nursing, Bandaging, and Surgical Assistance
   1. Medical nursing
   2. Surgical nursing
   3. Surgical assistance
   4. Equine bandaging

H. Diseases and Common Medical Problems
   1. Common infectious and non-infectious diseases of horses
   2. Signs of Colic and know general treatment principles
   3. Common non-infectious problems encountered in horses

I. Parasites
   1. Internal parasites
   2. External parasites
   3. Common anthelmintic medications
   4. General treatment principles

J. Equine Industry in the United States
   1. History of the horse industry in the United States

K. Equine Dentistry
   1. Equine dentistry techniques and procedures

L. Diagnostic Procedures and Preventative Health Programs
   1. Methods of diagnosis
   2. Disease prevention in horses
   3. Common equine vaccination protocols

M. Reproduction, OB Procedures, and Sheath Cleaning
   1. Equine reproduction system
   2. Equine reproduction cycle
   3. Equine gestation and parturition
   4. Equine sheath cleaning

N. Foal and Brood Mare Care
   1. Nursing/medical care of the foal
   2. Nursing/medical care of the brood mare
IV. METHODS OF INSTRUCTION

A. Lecture
B. Laboratory session
C. Textbooks, audio-visual aids, live animal models for laboratory instruction

V. REQUIRED TEXTS

D. *An Illustrated Guide to Veterinary Medical Terminology*, 2nd ed., Romich, Thomson Delmar Learning

VI. REQUIRED MATERIALS

A. Required textbooks
B. Audio-visual aids
C. Handouts prepared by the Veterinary Technology instructor

VII. SUPPLEMENTAL REFERENCES

Materials for research projects are available in Jefferson College Library and within the Veterinary Technology Department. Journals within the department are kept for student use.

VIII. METHODS OF EVALUATION

A. Distribution of Final Grade

Written examinations and the comprehensive final determine 90% of the final grade. Laboratory participation and competency comprise the remaining 10% of the grade.

Students are expected to complete the course with at least a grade of C. Students who make a grade below a C will be dropped from the program and invited to re-enroll as second year students and thus repeat the course the following year.
Any student found in noncompliance with the Jefferson College Academic Honesty Policy as delineated in the Jefferson College and Veterinary Technology Student Handbooks will receive a grade of F regardless of concurrent academic standing.

B. Assignment of Final Letter Grades

A = 93-100  
B = 84-92  
C = 75-83  
D = 60-74  
F = below 60

C. Attendance Policy

Student attendance is mandatory. There are no excused absences. Two classes can be missed with no penalty. Points will be taken for additional absences. If a student misses more than 15% of the total time (including lecture and laboratory) that the class meets in a semester, the student may be prohibited from attending the class by the instructor. In such cases, the student must officially withdraw from the course, by the designated withdrawal date, in order to reduce the possibility of receiving an “F” for the course. **Tardiness beyond 10 minutes is considered an absence.**

Students are permitted to miss one exam date with no penalty. Make up exams are taken in the Testing Center within 3 days of the original exam. For each subsequent exam missed, the student is penalized 10% of the total value of that exam (one letter grade).

Failure in assigned animal care dates or failure in ANY assigned clinical duties results in the loss of one lab grade.

The instructor may make exceptions to this policy in certain cases, i.e., illness requiring hospitalization, death in the family, etc.

IX. ADA AA STATEMENT

Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Library phone 636-481-3169).

X. ACADEMIC HONESTY STATEMENT

All students are responsible for complying with campus policies as stated in the Student Handbook (see College website http://www.jeffco.edu).
XI. ATTENDANCE STATEMENT

Regular and punctual attendance is expected of all students. Any one of these four options may result in the student being removed from the class and an administrative withdrawal being processed: (1) Student fails to begin class; (2) Student ceases participation for at least two consecutive weeks; (3) Student misses 15 percent or more of the coursework; and/or (4) Student misses 15 percent or more of the course as defined by the instructor. Students earn their financial aid by regularly attending and actively participating in their coursework. If a student does not actively participate, he/she may have to return financial aid funds. Consult the College Catalog or a Student Financial Services representative for more details.

XII. OUTSIDE OF CLASS ACADEMICALLY RELATED ACTIVITIES

The U.S. Department of Education mandates that students be made aware of expectations regarding coursework to be completed outside the classroom. Students are expected to spend substantial time outside of class meetings engaging in academically related activities such as reading, studying, and completing assignments. Specifically, time spent on academically related activities outside of class combined with time spent in class meetings is expected to be a minimum of 37.5 hours over the duration of the term for each credit hour.