JEFFERSON COLLEGE

COURSE SYLLABUS

VAT250

VETERINARY HOSPITAL TECHNOLOGY 1

5 Credit Hours

Prepared
by
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Dean, Dr. John Keck
1. CATALOG DESCRIPTION

Prerequisite: Completion of the first year of the program
5 semester hours credit

Veterinary Hospital Technology I involves practical applications in preventative medicine and medical and surgical nursing, including pre-surgical preparation and post-surgical care of animals, induction and monitoring of anesthesia, and surgical assistance. Also included are extensive laboratory sessions to practice techniques learned in the classroom.

II. EXPECTED LEARNING OUTCOMES
To have students practice and understand the small animal clinical procedures and critical thinking skills listed in the AVMA's Veterinary Technician Second Year Task List.

COURSE OUTLINE

A. OSHA
B. Medical Records
C. History and Physical Exam
D. Handling, Restraint, Venipuncture
E. Pre-Surgical Screens
F. Fluid Therapy
G. Medical Math
H. Shock
1. Emergencies, Triage, First Aid
J. Cardiopulmonary Resuscitation
K. ECG
L. Anesthetics, Anesthetic Machines
M. Instrument Types, Use, Care
N. OR: Packs, Sterilization, Asepsis
0. OR: Patient Prep, Surgeon Prep
P. Suture Materials, Knots, Patterns
Q. Transfusion Medicine and Blood Products

IV. UNIT OBJECTIVES

By the end of this course the student should be able to:

A. OSHA

Understand OSHA guidelines and other safety regulations.
B. Medical Records
1. Maintain patient medical records.
2. Perform reception duties.

C. History and Physical Exam
1. Demonstrate proficiency in history taking and physical examination.
2. Know normal and abnormal physical exam findings.

D. Handling, Restraint, Venipuncture
1. Demonstrate proficiency in animal handling and restraint.
2. Demonstrate proficiency in venipuncture, including cephalic, saphenous and jugular venipuncture.

E. Pre-Surgical Screens
Understand the necessity for presurgical screens and how to perform them.

F. Fluid Therapy
Demonstrate proficiency in fluid therapy.
1. Know how to administer fluids SQ, IV, IP, and 10.
2. Know how to place an IV catheter and hook up fluid administration sets.
3. Know the difference between different fluid administration sets.
4. Know how to correctly calculate fluid rates for shock or replacement therapy.

G. Medical Math
Demonstrate proficiency in medical calculations including dosages and fluid rates.

H. Shock
Understand the pathophysiology of shock and different types of shock.
1. Emergencies, Triage, First Aid
   1. Understand principles of triage.
   2. Understand what constitutes a medical or surgical emergency.
   3. Understand basic first aid measures.
J. Cardiopulmonary Resuscitation

1. Understand the "ABC's of CPR".
2. Understand how to respond to a code.
3. Understand how to set up and maintain a crash cart.

K. ECG

1. Understand how the ECG is produced.
2. Recognize normal and abnormal ECG's.
3. Know how to perform a ECG on small animal patients.

L. Anesthetics, Anesthetic Machines

1. Know basic principles of anesthesiology.
2. Know basic types of injectable and inhalant anesthetics
3. Know different types of anesthetic machines.
4. Know the difference between rebreathing and nonrebreathing circuits, appropriate patient selection, and how to calculate fresh gas flow rates for each.

M. Instrument Types, Use, Care

Be familiar with instrument types and the care of instruments used for small animal medicine and surgery.

N. OR: Packs, Sterilization, Asepsis

1. Be familiar with OR conduct pertaining to pack preparation and sterilization.
2. Understand aseptic technique.

OR: Patient Prep, Surgeon Prep

Be familiar with OR conduct pertaining to patient prep and surgeon prep.

P. Suture Materials, Knots, Patterns

1. Understand differences between suture materials commonly used in veterinary medicine.
2. Understand how to make a surgeon's knot and basic suture patterns.

Q. Transfusion Medicine and Blood Products

1. Understand how to take, store, and administer blood.
2. Know the uses of various blood products.
V. METHOD(S) OF INSTRUCTION

A. Lecture: MWf, 9:00 - 9:50 a.m.
B. Lab: Section 1, MT, 12:00 - 2:00 p.m.

Section 2, WR 12:00 - 2:00 p.m.

1. Performing physical exams on ALL patients.
2. Administering appropriate medications, vaccinations, and treatments.
3. Performing appropriate laboratory tests.
4. Anesthetic monitoring.
5. Surgical prep and assistance, including common suture patterns.
6. IV catheterization and fluid monitoring.
7. Demonstration labs for:
   a. Fluid pumps/pulse oximetry
   b. Cardiopulmonary resuscitation
   c. Blood pressure monitoring/ECG
   d. Anesthesia reversal
   e. Blood collecting and administration
8. Work on checklist of clinical skills
9. Scientific paper
10. Participate in off-site externships at local specialty practices

VI. REQUIRED TEXTBOOK(S)

Clinical Textbook for Veterinary Technicians, 6th ed., McCurnin, Saunders Publishing
Principles and Practice of Veterinary Technology, 2nd edition, Sirois

VII. REQUIRED MATERIAL(S)

Stethoscope, appropriate laboratory attire (scrubs or whites), penlight, watch

VIII. RECOMMENDED TEXTS

Small Animal Anesthesia, McKelvey & Hollingshead
Manual of Clinical Procedures in the Dog and Cat, Crow & Warshaw

IX. METHOD OF EVALUATION (Student)

A. Distribution of Final Grade (350 point total)

1. 75 points-Lab Participation/Performance
2. 25 points-Lab Practical/Final
3. 100 points-Unit Tests
4. 50 points-Comprehensive Final Exam
5. 50 points clinical skills checklist
6. 25 points scientific paper
7. 25 point skills test
(Points deducted for absences.)
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 are responsible for complying 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 accommodaions 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.