COMMON COURSE OUTLINE: Course discipline/number/title: VT 2260: Veterinary Surgical Nursing II

A. CATALOG DESCRIPTION
1. Credits: 2
2. Hours/Week: 3
3. Prerequisites (Course discipline/number): Grade of C or better in all required previous VT coursework and general education requirements.
4. Co-requisites (Course discipline/number): None
5. MnTC Goals (if any): NA

This course will cover pre-surgery preparation and post surgical care of small animals, principles of surgery, aseptic technique, fluid therapy, and surgical assisting through practical experience. The course applies basic utilization of anesthetic agents, the use and operation of allied machines, monitoring and care of the anesthetized animal patient, and the pre-operative considerations and duties for anesthesia. Other topics include performance of routine veterinary dental prophylactic techniques, emergency procedures, and control of post-surgical pain. RECOMMENDED ENTRY SKILLS / KNOWLEDGE: High School diploma or GED Grade of C or better (high school or college level within the last five years) in the following courses: Biology with a lab, Chemistry with a lab, Elementary Algebra of equivalent Minimum one-year high school typing/keyboarding skills Completed previous VT courses with an overall GPA of 2.0.

B. DATE LAST REVISED (Month, year): November, 2006

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Advanced operating room procedures
2. Understanding of common surgical procedures
3. Application of anesthesia
4. Application of monitoring of anesthesia
5. Analgesia
6. Postoperative care
7. Emergency procedures
8. Veterinary dentistry

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Identify the concepts of analgesics and muscle relaxants.
2. Demonstrate the techniques for assisted and control ventilation.
3. Identify the principles involved with providing proper fluid therapy and for maintaining the acid based balance.
4. Identify oxygenation problems that might occur with anesthesia.
5. Identify normal in abnormal dental structures, conditions, and lesions.
6. Identify teeth by means of anatomical and Triaden and numbering systems.
7. Demonstrate proper use of dental terminology to chart dental morphology accurately.
8. Demonstrate the steps to perform a complete dental prophylaxis.
9. Describe the causes in stages of gingivitis and periodontitis.
11. Keep operative records.
13. Administer anesthetic related drugs by injection, mask, induction chamber or endotracheal tube.
15. Demonstrate understanding of regulations involving maintenance of controlled substances log book.
16. Asses’ patients prior to surgery.
17. Keep operative records.
18. Place endotracheal tubes in patients when appropriate.
19. Utilize clinical signs and appropriate equipment to monitor patient status in all stages of anesthetic procedures (e.g., esophageal stethoscope, Doppler, pulse oximeter).
20. Evaluate patient and implement and evaluate pain management protocols.
22. Coordinate pain management with the surgical team.
23. Recognize and respond appropriately to patients in compromised states.
D. LEARNING OUTCOMES (GENERAL): Continued. . . . The student will be able to:
24. Perform appropriate resuscitation procedures as needed (e.g., calculate and administer appropriate anesthetic antagonists and emergency drugs as directed)
25. Understand and have knowledge of basic performance in able to assist in the following surgical procedures:
   Ovariohysterectomy, cesarean section, orthopedic procedures, castration, tail docking, onychectomy, and laparotomies

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
Methods may include any of the following:
1. Laboratory reports and/or quizzes
2. Objective and/or subjective tests
3. Laboratory practical tests
4. Work related experience with skill competency record
5. Course assignments
6. Essay tasks
7. Group work/projects
8. Attendance (especially laboratory attendance)

G. SPECIAL INFORMATION (if any):
The initial lab session explains and familiarizes the student with general safety hazards and safety equipment to the lab. During the pre-lab discussion, the hazardous characteristics of any materials used during a lab are discussed. In addition, if the lab involves any potentially infectious or zoonotic material, the students will be instructed on the proper use and disposal. The instructor will direct all students to where necessary protective equipment while working with any hazardous chemicals. A copy of Material Safety Data Sheets for chemicals used is available in the lab.