ANESTHESIA AND PAIN MANAGEMENT — VTEC 2120

A. Course Description
   - Credits: 3.00
   - Lecture Hours/Week: 2.00
   - Lab Hours/Week: 1.00
   - OJT Hours/Week: 0
   - Prerequisites: None
   - Corequisites: None
   - MnTC Goals: None

   The course will cover basic anesthetic principles and monitoring. 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 understanding of veterinary dental techniques, emergency procedures, and control of post-surgical pain. Prerequisites: VTEC 1250

B. Course Effective Dates: 8/21/17 – Present

C. Outline of Major Content Areas
   - As noted on course syllabus

D. Learning Outcomes
   1. Apply emergency splints and bandages
   2. Assess the patient’s risk status and determine appropriate anesthetic and peri-anesthetic protocols to provide effective pain management and maximum anesthetic safety and effectiveness.
   3. Calculate dosages of appropriate anesthetic-related drugs
   4. Choose and utilize appropriate techniques and equipment to monitor the patient’s ongoing status accurately and effectively before, during and after anesthesia to provide for adequate anesthesia, analgesia, and a safe recovery
   5. Complete controlled substance log
   6. Demonstrate ability to perform first aid and cardiopulmonary resuscitation
   7. Determine/maintain fluid infusion rate
   8. Develop familiarity with fluid delivery systems
   9. Evaluate current pre-surgical patient status
   10. Evaluate patient and implement pain management protocols as directed
11. Given the characteristics of the patient and the surgical procedure to be performed, the veterinary technician will assure that anesthetic and post-operative pain management protocols are appropriate to provide maximum safety and benefit to the patient.

12. Have a working knowledge of anesthetic and recovery procedures for mice, rats, and rabbits

13. Maintain and operate anesthetic delivery and monitoring equipment

14. Maintain emergency medical supplies/crash cart

15. Monitor patient hydration status

16. Organize and implement anesthesia protocols

17. Organize medical records/consent forms for surgical patients

18. Review pre-operative evaluation

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted