COURSE OUTLINE

VSCT 115 – FUNDAMENTAL VETERINARY NURSING SKILLS II

Prepared By: Sophia C. Theodore, DVM
A. **TITLE:** Fundamental Veterinary Nursing Skills II

B. **COURSE NUMBER:** VSCT 115

C. **CREDIT HOURS:** 2

D. **WRITING INTENSIVE COURSE:** No

E. **COURSE LENGTH:** 15 weeks

F. **SEMESTER(S) OFFERED:** Spring

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
   One hour of lecture per week and 2 hours of laboratory per week

H. **CATALOG DESCRIPTION:**

This course is a continuation of material covered in Fundamental Veterinary Nursing Skills I. Students continue with identification of dog breeds and surgical instrumentation. Students identify, handle, and discuss husbandry of birds, small mammals, and reptile species. Instrumentation and restraint techniques for horses and livestock are also covered. Students perform nursing procedures including wound care and bandaging, diagnostic procedures for the eye, and subcutaneous and intramuscular injection techniques, among others, and discuss the examination and care of pediatric and geriatric patients. Students perform surgical preparation and assisting techniques, CPR, and endotracheal intubation on models and prepare surgical instruments and supplies for use. Animal welfare and the pet overpopulation crisis are also covered and client education is further developed. This course has 50 minutes of lecture and two hours of laboratory per week.

I. **PRE-REQUISITE:** VSCT 101 - Fundamental Veterinary Nursing Skills I or permission of instructor

J. **GOALS (STUDENT LEARNING OUTCOMES):**

By the end of this course, the student will be able to:

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<tr>
<th>Course Objective</th>
<th>Institutional SLO</th>
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<tr>
<td>Perform patient care procedures on cats and dogs</td>
<td>3. Prof. Competence</td>
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<td>Perform diagnostic techniques and collect diagnostic specimens for analysis (voided urine, feces, blood)</td>
<td>3. Prof. Competence</td>
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<td>Restrain, examine, and provide basic care for exotic animal species</td>
<td>3. Prof. Competence</td>
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<td>Prepare surgical patients, instruments, and supplies for surgical procedures and care for them before, during, and after procedures.</td>
<td>2. Crit. Thinking, 3. Prof. Competence</td>
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<td>Perform mathematical calculations used to determine drug dosages</td>
<td>3. Prof. Competence</td>
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<td>Perform CPR on animal model</td>
<td>3. Prof. Competence</td>
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<tr>
<td>Identify instrumentation for use in large animals and discuss basic physical examination and restraint techniques for large animal species</td>
<td>3. Prof. Competence</td>
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K. **REQUIRED TEXTS:**
   - Lecture and laboratory note packet
   - Program Manual / Essential Tasks booklet
L. REFERENCES: Campus Library, Veterinary Technician

M. EQUIPMENT:
   - ANGEL learning system: http://www.canton.edu/angel/
   - Laboratory supplies and equipment

N. GRADING METHOD: A - F

O. MEASUREMENT CRITERIA/METHODS:
   - Quizzes
   - Hourly
   - Clinical Competency
   - Cumulative Final Exam
   - Participation

P. DETAILED TOPICAL OUTLINE:

   I. Wound healing process, wound types, infection
      A. Stages of wound healing
      B. Factors that affect the speed of healing
      C. Types of wounds
      D. Indications of the age of a wound
      E. Indications of infection

   II. Geriatrics
      A. Categories of common geriatric diseases/disorders
         a. Neoplasia
         b. Loss of function
         c. Metabolic disorders
      B. History, physical examination, & client education for the geriatric patient

   III. Reproductive & urinary systems & disorders
      A. Males
      B. Females
      C. Both

   IV. Drug math
      A. Dilutions
      B. Percent solutions
      C. Medication administration

   V. The pet overpopulation crisis
      A. Statistics
      B. Disposition of excess animals
      C. Solutions for veterinary professionals
VI. Shelters and rescue work, spay/neuter clinics
   A. Goals
   B. Types
   C. Problems
   D. Solutions

VII. Fish
   A. Types of fish
   B. Fish husbandry and feeding
   C. Freshwater coldwater aquaria and ponds
   D. Freshwater tropical aquaria
   E. Signs of stress or disease
   F. Handling, restraint, & transportation
   G. Medication

VIII. Birds
   A. Types
   B. Anatomy & physiology review
   C. Signs of illness
   D. Restraint & handling
   E. Physical exam
   F. Wing clipping
   G. Nail clipping

IX. Large Animal restraint, physical exam, & instrumentation
   A. Equine restraint & physical exam
   B. Bovine restraint & physical exam
   C. Restraint of sheep
   D. Restraint of swine

X. Gestation, parturition, lactation in cats & dogs
   A. Terminology
   B. Estrous cycles in dogs & cats
   C. Gestation
   D. Parturition
   E. Postpartum care of the dam
   F. Lactation

XI. Small mammals
   A. Chinchillas
   B. Sugar gliders
   C. Others
   D. Restraint & handling
   E. Husbandry
XII. Reptiles & amphibians
   A. Snakes
   B. Lizards
   C. Turtles
   D. Amphibians
   E. Husbandry
   F. Diet

Q. LABORATORY OUTLINE:

I. Wound care and bandaging
   a. Hemostasis
   b. Taking a history of the wounded patient
   c. Physical examination of the wounded patient
   d. Clip and prep wound
   e. Lavage wound
   f. Veterinarian’s duties
   g. Bandage types and bandaging

II. Advanced eye & ear procedures
   a. Schirmer tear test
   b. Fluorescein staining
   c. Tonometry
   d. Ear flush

III. Perianal & urogenital examination & care
   a. Medical conditions and terminology
   b. Enemas
   c. Anal sac disorders, expression, and care
   d. Urine & fecal sample collection
   e. Urogenital examination

IV. Venipuncture
   a. Venipuncture restraint review
   b. Venipuncture sites
   c. Venipuncture on animal model

V. Endotracheal intubation
   a. Anatomy of upper respiratory tract
   b. Indications for intubation
   c. Preparation for intubation
   d. Intubation of animal model

VI. Cardiopulmonary resuscitation of animal model
   a. Evaluation of patient
   b. CPR
VII. Preparing animals for surgery
   a. Clipper care review
   b. Areas to clip for various procedures
   c. Clipping surgical sites
   d. Prepping surgical sites
   e. Positioning animals on surgery table
   f. Adjusting table and surgery light position

VIII. Scrubbing, gowning, & gloving for surgery
   a. Attire
   b. Preparation
   c. Surgical scrub
   d. Gowning
   e. Open, closed, & assisted gloving
   f. Folding/wrapping gowns to be autoclaved

IX. Surgical nursing
   a. Establishment & maintenance of a sterile field
   b. Pre-surgical tasks for the surgical nurse
   c. Tasks for the circulating nurse
   d. Tasks of the surgical assistant

X. Care of surgical instruments and supplies
   a. Cleaning instruments
   b. Use of ultrasonic cleaner
   c. Lubrication of instruments
   d. Wrapping and labeling instrument packs
   e. Use of autoclave
   f. Preparation and care of cold tray

XI. Needles, syringes, subcutaneous injections
   a. Review needle & syringe types, sizes, and use
   b. Subcutaneous injections

XII. Intramuscular injections

XIII. Instrumentation for large and small animal restraint and surgery

XIV. Neonatology & pediatrics in cats & dogs
   a. Reviving neonates
   b. Pediatric examinations
   c. Care of orphaned kittens & puppies
   d. Early development
   e. Pediatric disorders
   f. Vaccination protocols

XV. Client education

XVI. Reptile & amphibian restraint & handling