

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**



COURSE OUTLINE

VSCT 115 – FUNDAMENTAL VETERINARY NURSING SKILLS II

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**SCHOOL OF SCIENCE, HEALTH & CRIMINAL JUSTICE
VETERINARY SCIENCE TECHNOLOGY
MAY 2015**

- 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:

<i>Course Objective</i>	<i>Institutional SLO</i>
Perform patient care procedures on cats and dogs	3. Prof. Competence
Perform diagnostic techniques and collect diagnostic specimens for analysis (voided urine, feces, blood)	3. Prof. Competence
Restrain, examine, and provide basic care for exotic animal species	3. Prof. Competence
Prepare surgical patients, instruments, and supplies for surgical procedures and care for them before, during, and after procedures.	2. Crit. Thinking 3. Prof. Competence
Perform mathematical calculations used to determine drug dosages	3. Prof. Competence
Perform CPR on animal model	3. Prof. Competence
Identify instrumentation for use in large animals and discuss basic physical examination and restraint techniques for large animal species	3. Prof. Competence

- 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. Cardipulmonary 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