VETERINARY TECHNOLOGY SYSTEMS

Faculty
Barbara Berg, Academic Lead/Program Director, LVT, Assistant Professor
Judy Bowmaster Cole, LVT, Assistant Professor
Elizabeth Fraser, D.V.M., Assistant Professor
Leighlynn Obermiller, LVT, Lecturer
Noel Ochoa, LVT, Lecturer
Crystal Rhine, D.V.M., Assistant Professor

Veterinary Technology Mission
The Veterinary Technology Systems division is dedicated to the development of innovative individuals for careers in the animal health industry. The focus of the Veterinary Technology Associate of Applied Science degree is to provide the hands-on skills and academic background needed for graduates to accept and be successful in career opportunities within the animal health industry, be lifelong learners and involved community members. NCTA maintains a wide variety of animals to provide the students with a consistent and broad background of experience.

Application and Selection Process for Technician Option
Students interested in the Veterinary Technician Option are initially accepted into the Veterinary Assistant, Animal Husbandry, Animal Health Management or Equine Health Care Option. These options can be used as the degree pursued or as preparation for being accepted into the Veterinary Technician Option at the Nebraska College of Technical Agriculture.

Upon successfully meeting the listed requirements, a student may be accepted into the Veterinary Technician Option Program. Once selected, the student's advisor will have the admissions officer formally complete the change of option.

IMPORTANT NOTE: Only the Veterinary Technician option can lead to licensure as a veterinary technician.

To be accepted into the Veterinary Technician Option students must meet the following requirements:

1. Vaccinations
   a. Tetanus shot within the last 10 years
   b. Rabies Pre-exposure Vaccination (Please see Rabies Mitigation plan below).
      i. Rabies vaccination is required for students pursuing the Veterinary Technician Option. It is a prerequisite for Clinical Practices and Surgery Prep Class. Both of these required classes often deal with unvaccinated animals.

2. A 3.0 CGPA at the end of 2nd semester. In the event of course failure, withdrawal, or a grade of C- or below, a student will be allowed to repeat the course to earn a qualifying grade. Once all requirements have been met a student may reapply to be accepted into the Veterinary Technician Option.

3. Successful completion of 24 credit hours of advisor guided NCTA Veterinary Technology and / or NCTA college core classes.
4. 20 hours of observation in a Veterinary Clinic
5. Grooming and Attire Requirements
6. It is recommended that students be able to safely lift 50 lbs. Reasonable accommodations will be made when possible. Please talk to your instructor.
7. Health Insurance is highly recommended. If you do not have medical insurance, it is available through UNL. Log into MyNCTA, Select the Profile tab and click on Health Insurance. Insurance through UNL must be signed up for at the beginning of each semester.

Students who are not selected into the Veterinary Technician Option following their first year, may choose to complete any of the following Veterinary Technology options: Veterinary Assistant, Animal Husbandry, Equine Health, or the Animal Care Certificate. The course work completed will apply towards these options as well as prepare them to work in a variety of related jobs within the animal health and science industries. The coursework may also serve to prepare student to meet the required requirements for the Veterinary Technician Option the following year.

Please refer to the Veterinary Technology Handbook (https://ncta.unl.edu/CurrentStudents/AcademicResources/2023%20Handbook%20updated%20March%202023.pdf) for more information on these topics.

Graduation Requirements
Final Assessment - Veterinary Technician Option
• The focus of NCTA’s Associate of Applied Science, Veterinary Technician Option is to provide the hands-on skills and academic background needed to accept career opportunities as an entry level veterinary technician. The program is American Veterinary Medical Association (AVMA) accredited with the curriculum based around the AVMA essential tasks and skill list. Veterinary Technology – Technician Option graduates are qualified to sit for the Veterinary Technician National Licensing Exam and become a licensed Veterinary Technician. NCTA maintains a wide variety of animals to provide the students with a consistent and broad background of experience.
• This option requires the successful completion of structured classes covering AVMA essential skills, an 8-week internship, passing the exit exam and, a CGPA of 80%.
• To become a licensed veterinary technician in Nebraska, one must graduate from an AVMA accredited Veterinary Technology Program (Technician Option), pass the VTNE (Veterinary Technician National Exam), and become licensed with the state of Nebraska. Certain felonies will prevent a person from being able to obtain a license.

Final Assessment – Veterinary Assistant Option
• Upon successful completion of the Veterinary Assistant Option students will be able to demonstrate the academic background needed to enter the work force as an entry level assistant. This is assessed through the VT Exit Exam. The Exit exam is taken at the same time as Technician Option students but without passing grade requirements.
Final Assessment - Animal Husbandry, Animal Health Care Management, Equine Healthcare Options

- The 150 question written comprehensive final assessment is administered at the end of student’s last on-campus semester/session.

Veterinary Technology Handbook

All Veterinary Technology students should read the Veterinary Technology Student Handbook (https://ncta.unl.edu/CurrentStudents/AcademicResources/2023%20Handbook%20updated%20March%202023.pdf) that can be found on the NCTA web page.

Rabies Mitigation Plan

- Rabies is a fatal disease that the veterinary profession may come in contact with. Because of this several recommendations and requirements are in place
  - Animals brought to class by students must be vaccinated against rabies at least 28 days before coming to class (This includes dogs, cats, and horses)
  - Unvaccinated students will not handle any unvaccinated dogs, cats, or horses.
  - For classes with production animals the class policy and syllabus includes the wearing of gloves.

Veterinary Technician Option-Associate of applied science Degree

The Veterinary Technician Option requires the successful completion of all required classes, an 8 week internship, passing the exit exam and a CGPA of 80%.

College General Education Core

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<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>VTS 1403</td>
<td>ANATOMY AND PHYSIOLOGY</td>
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<td>VTS 1521</td>
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<tr>
<td>VTS 1822</td>
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<tr>
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<td>VTS 2533</td>
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<td>FUR AND FEATHER</td>
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<td>VTS 2583</td>
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<td>NURSING II (*)</td>
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<td>PARASITOLOGY (*)</td>
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<tr>
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<td>ANESTHESIOLOGY (*)</td>
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<tr>
<td>VTS 2954</td>
<td>SURGERY PREPARATION (*)</td>
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Nutrition-selection one 3 credit hour nutrition

Veterinary Assistant Option-Associate of applied science Degree

The Veterinary Assistant Option requires the successful completion of all required classes, an 8 week internship and a CGPA of 70%.

The course work is the same as the Veterinary Technician Option above. Please see Veterinary Technician Option.

Animal Husbandry Option-Associate of Applied Science Degree

Associate of Applied Science-General Education Core

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Select One Nutrition Class

Students with ACT Less Than 18 will take:

ENG 103 | INTRODUCTION TO COLLEGE READING AND WRITING | 3

and complete the program over 3 years instead of 2 years, taking 12 to 15 hours each semester

Animal health management Option-Associate of Applied Science Degree

Associate of Applied Science-General Education Core

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</table>

or VTE 2821 | RADIATION SAFETY |

Select One Nutrition Class

Students with ACT Less Than 18 will take:

ENG 103 | INTRODUCTION TO COLLEGE READING AND WRITING | 3
### Equine Health Option—Associate of Applied Science Degree

**Associate of Applied Science-General Education Core**  
17 credits

**Veterinary Technology Internship**  
3 credits

**Required Veterinary Technology Courses**  
43 credits

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<tr>
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<td>EQUINE DISEASES</td>
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**Choose 18 Credit hours from the following (advisor guided):**  
18 credits

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<td>ASI 1501</td>
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<td>VTE 1623</td>
<td>EQUINE LABORATORY DIAGNOSTICS</td>
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<tr>
<td>VTE 1633</td>
<td>EQUINE DISEASES</td>
</tr>
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<td>VTE 1643</td>
<td>EQUINE HEALTH RECORDS</td>
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**Choose 8 Credit hours from the following (advisor guided):**  
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<td>VTS 2551</td>
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**Total Credit Hours**  
71 credits

### Animal Care Certificate

**Select 12 hours from the following:**  
12 credits

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<td>VTS 1604</td>
<td>INTRODUCTION TO LABORATORY SCIENCE</td>
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<td>FUR AND FEATHER</td>
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<td>EXOTICS</td>
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**Total Credit Hours**  
12 credits
VTE 1021 BASIC DOG GROOMING
Description: Basic Dog Grooming provides an introduction to professional grooming. The entire process will be demonstrated and practiced. It includes prepping, bathing, drying, grooming, cuts and finishing. Creative grooming patterns for mixed breeds and purebreds are taught. An introduction to the dynamics of running a successful pet grooming business is discussed as well.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 1111 STOCK DOG I
Description: Prerequisite: Completion of VTE-2101 Dog Training or by instructor permission. A course for first-year students designed to introduce students to the concepts and principles of stock dog training. Twice weekly practices allow students to work their dog on a variety of hoof stock: sheep, goats, and cattle. Topics covered include breed knowledge, canine behavior, basic terminology, and husbandry. Material is delivered through training sessions, lecture, training DVDs, assigned reading, and guest clinicians. Students learn about trail competition through hosting and attending cattle dog trial events. Participants must provide their own dog. The dog must be a herding breed and be older than 8 months old. Limited kennel house available on campus through application process.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 2
Grading Option: Graded

VTE 1401 ANATOMY & PHYSIOLOGY LAB
Description: This course includes the clinical skills (labs) for VTE 1403 Anatomy. Basic body systems are studied at the tissue, organ and systems levels. Comparison of various species of common domestic animals is stressed. Laboratory exercises include a study of the skeletal system and dissection of dog and cat specimens. Availability of large animal organs for comparison is encouraged. The on-site instructor is responsible for lab instruction, grading of laboratory assignments and delivery of lab exams. The on-site instructor may develop an assignment (s) worth 50 points total to customize the class to their site.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 1403 ANATOMY AND PHYSIOLOGY
Description: This on-line class studies basic body systems at the tissue, organ and systems levels. Comparison of various species of common domestic animals is stressed.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 1511 ANIMAL CARE LAB
Description: This lab course contains the clinical skills corresponding to VTE 1512 Animal Care. Both VTE 1512 and VTE 1511 must be taken and passed with a 70% to take Nursing I.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 1512 ANIMAL CARE
Description: This survey course introduces the student to canine and feline husbandry, including restraint, behavior, species and breed identification, basic technical techniques and the human-animal bond. Humane animal care and management is emphasized. The care, handling, feeding, basic nursing skills, normal values, administration techniques, basic grooming and sample collection are included. Both VTE 1512 and VTE 1511 must be taken and passed with a 70% to take Nursing I.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTE 1611 CONCEPTS IN BITS
Description: Students explore theories and designs of bits in relation to mouth anatomy and discipline functions. History of bits to current industry trend will be explored with the goal of students gaining a thorough understanding of what a bits role is in riding.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 1621 CALVING ROTATION I
Description: Pre req: VTS 1403 Anatomy & Physiology, VTS 2533 Lg Animal Techniques III, VTS 2593 Nursing II, or instructor permission. Students observe and assist in calving. Enrollment limited.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 1623 EQUINE LABORATORY DIAGNOSTICS
Description: This course will help familiarize students interested in equine health with a variety of tests and equipment available for equine diagnostics. complete blood counts, biochemical tests, urinalysis and other evaluation techniques will be discussed and practiced in this course.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 1633 EQUINE DISEASES
Description: In this course students study the causes of equine diseases and the principles of preventive veterinary medicine pertaining to equine. Study includes investigation of specific diseases and disease control measures as well as parasite management in the equine. Important zoonoses are covered. The course includes dosage calculations, and a survey of the common drug types used in equine medicine. Adverse drug reactions are discussed, labeling and packaging requirements, handling and storage of hazardous material and controlled drugs, preparing medications and vaccines, appropriate routes and methods of drug and vaccine administration are included.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded
VTE 1643 EQUINE HEALTH RECORDS
Description: This course will introduce students to the paperwork and record keeping associated with the horse. Medical records, breeding records, coggins papers, insurance applications, health permits for transportation to events across state borders, and other equine related record keeping will be included in the course. Equine law applications and business issues are introduced as well.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 2011 LIFETIME LEARNING
Description: Continuing education topics designed for Veterinary Technicians to meet continuing education licensing requirements. This class may be repeated for additional CE hours and can be taken by technicians, assistants, and veterinary technology students.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Pass No Pass

VTE 2021 SPECIAL INTEREST
Description: In this elective class, the student pursues a subject of special interest to them. It may include but is not limited to research and/or group tours. The project is developed under the supervision and evaluation of a faculty member who is willing and available to contract with the student. (Pre req: VT faculty permission)
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 2031 EMERGENCY MEDICINE
Description: Pre req: VTS 2593 Nursing II with a grade of 70% (C) or higher. Students observe and assist in animal care at an emergency clinic for a minimum of 40 hours.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 2032 THE WORLD OF WORK
Description: Prerequisite: enrollment in Veterinary Technology and permissions of VT faculty. This course involves a minimum of 80 hours of field experience at an approved location. The class is tailored to the needs of an individual and the needs of the placement of employment. Statement of objectives will be required and progress notes will be checked. The class is developed by the student under the supervision and evaluation of a Vet Tech faculty member. On site work hours must occur in a place of employment that contributes to the care and health of animals. Enrollment is limited and must be arranged with the instructor before enrolling. The class may be taken only once and is a graded class.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTE 2041 MAKING A DIFFERENCE
Description: Make a difference in the lives of hundreds of unwanted animals. Do 40 hours of volunteer work at a humane society or animal shelter and receive college credit. Enrollment is limited.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 2101 DOG TRAINING
Description: This course includes principles and rationale of canine training. Basic behavior, exploration of techniques and basic training goals are included. Limited enrollment.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 2111 STOCK DOG II
Description: Prerequisite: Completion of two sections of VTE 1111 A course for second-year students designed to be a continuation of the material covered in VTE 1111, Stock Dog I, with additional advanced stock dog training skills. Students attend twice weekly practices to work on the skills necessary to train their dog for low stress stock handling and/or trial competition. Material is presented through in person practices, lecture, assigned reading, training DVDs, and guest clinicians. Participants travel to and host cattle dog trials where they can compete with their dog. Participants must provide their own dog. The dog must be a herding breed and be at least 8 months old. Limited kennel house available on campus through application process.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 2122 INTRO TO VET OFFICE
Description: This class provides an introduction into the Veterinarian’s office and the knowledge essential for working in this position. It focuses on the terminology used in the clinic that is important for communication with clients, technicians, and veterinarians. Terminology expands into knowledge of areas such as infectious diseases, surgery, client relationships, animal care, and vaccinations.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTE 2322 SPANISH FOR ANIMAL HEALTH
Description: A beginning Spanish course to help one become familiar with terms used when working with people and animals in agriculture and animal health.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTE 2342 SPANISH FOR ANIMAL HEALTH
VTE 2423 CANINE & FELINE NUTRITION

Description: This is an introductory canine and feline nutrition course. The course provides identification and function of nutrients, understanding pet food labels, and nutritional applications for well and unwell pets. It takes into account the various life stages of dogs and cats and disease processes that diet can affect.

Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 2522 EXOTIC PETS SELECTION & CARE

Description: This course is designed to introduce students to the selection decisions and overall concerns of owning common exotic animal pets. Specifics about animal species, housing and nutrition requirements as well as expectations of pet behavior and interaction will be addressed within this course.

Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTE 2532 BASIC BIRD BEHAVIOR AND TRAINING METHODS

Description: This course will introduce students to the basics of bird behavior that influences training methods. The goal of the course is to help students of veterinary technology practice the best care for birds coming into the clinic by providing birds with cooperative skills via training methods. The philosophy of training without force and utilizing reinforcement will be discussed and utilized within the class.

Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTE 2542 WALK THE WILD SIDE

Description: Learn about the untamed side of veterinary technician medicine. Discover the positive impact Zoos and Wildlife Rehab centers can make. Work with endangered and rescued animals. Observe the business side of these operations. Do 80 hours of volunteer work at a zoo or wildlife rehab center and receive college credit. Enrollment is limited. (Pre req: Enrollment in Veterinary Technology)

Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTE 2552 FACILITY MANAGEMENT II

Description: Students study and assist with the daily work flow and management of animal facilities utilizing accepted animal welfare practices and standard operating procedures. Front office skill may be practiced and students have the opportunity to provide daily and special care for a selection of animals involved in the veterinary technology program. The course may include some weekend care of animals and facilities. The class is tailored to the student's interest and the division's needs. This class is offered as needed by students and must be prearranged with the division and class sponsor.

Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTE 2573 SAFARI

Description: This course of study is intended for students with a special interest in wildlife and/or exotic animals. With the guidance of the instructor, students plan the study trip to expand their knowledge in topics outside the scope of college courses. Prior to the “safari”, students will set educational goals based on research pertinent to their trip.

Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 2553 EXOTICS

Description: This course is designed as a continuation in learning to care for exotic animals that the veterinary technician may encounter in clinical practice. Species identification, housing requirements, nursing care, dietary needs, reproduction, and potential health problems will be discussed. Emphasis is usually placed on birds, reptiles, amphibians, small mammals, and alternative livestock species. The goal of this course is to provide the student with skills essential for entry-level positions as veterinary technicians working with non-domestic animals.

Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 2613 EQUINE SURGERY AND ANESTHESIA

Prerequisites: Equine Nursing or concurrent enrollment

Description: This course will teach an understanding of and basic skills for operating room protocols and anesthesia. The class will cover anesthesia from standing sedation, to basic and commonly used drugs and the anesthetist’s responsibilities for induction, through surgery and recovery. Local and general anesthesia techniques and principles will be covered. The surgery portion will cover identification of common instruments, how to prepare them for sterilization, surgical prep and surgery suite management. This information will be presented through lecture, lab and field trips.

Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 2621 CALVING ROTATION II

Description: Pre req: VTE 1621 Calving Rotation I. Students observe and assist in calving (if available). Necropsy and various other experiences may present themselves. Enrollment limited.

Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 2622 LED OR CONVENTIONAL INCUBATION

Description: This course will introduce students with an equine interest to the nutritional management of the equine patient. Diets and needs for specific classes of horses and the unique nutritional demands placed on horses during various disease processes will be included.

Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded
VTE 2634 EQUINE DENTISTRY
Description: Students gain an understanding in theories and techniques of equine dentistry. Dentistry methods from basic floating to complete mouth balancing using hand tools, and incisor work will be covered. Equine restraint techniques for unseated work as well as pharmacologically aided methods will be covered. (Pre req: Must be a DVM, LVT, or a student who has completed 35 hours of an AVMA accredited program)
Credit Hours: 4
Max credits per semester: 4
Max credits per degree: 4
Grading Option: Graded

VTE 2643 EQUINE NURSING
Description: Pre req: Large Animal Techniques II and ASI 1501 Equine Safety) This course provides information to enhance and focus a student's understanding of equine nursing concepts.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 2743 VET TECH OVERVIEW I
Description: This course is designed to provide a comprehensive review of the field of veterinary technology. It is intended for students that have completed the veterinary technology program and need to review specific areas before entering the work force or sitting for the national veterinary technician exam.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 2753 VET TECH OVERVIEW II
Description: This course is designed to provide a comprehensive review of the field of veterinary technology. Course work includes reading, writing and workbook assignments covering material from the Clinical Textbook for Veterinary Technicians. It can be beneficial for students who want to develop a deeper level of understanding for the classes they need to take for the Veterinary Assistant and Veterinary Technician Options. It is also intended for students who have completed the veterinary technology program and want to pursue the NCTA Alternative Path to completing the Veterinary Technician Option. It can serve Veterinary Technician graduates who want to review specific areas before entering the work force or sitting for the national veterinary technician exam.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 2763 VET TECH PREP
Description: The course utilizes the On-Line Vet Tech Review course. It may be purchased through www.vettechprep.com. It may be purchased as a 45, 60, or 90-day subscription, depending on how long you want to have the material available for study. The cost ranges from $200 - $250. This course is designed to provide a comprehensive review of the field of veterinary technology. It can be beneficial for students who want to develop a deeper level of understanding for the classes they need to take for the Veterinary assistant and Veterinary Technician Options. It is also intended for students who have completed the veterinary technology program and want to pursue the NCTA Alternative Path to completing the Veterinary Technician Option. It can serve Veterinary Technician graduates who want to review specific areas before entering the work force or sitting for the national veterinary technician exam.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTE 2811 ULTRASOUND
Prerequisites: VTS 1403 Anatomy
Description: The principles of ultrasound are studied. The student is introduced to basic equipment care and use. Procedures are performed on small and large animals.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTE 2821 RADIATION SAFETY
Description: This online course is designed for veterinary assistants who are working in a private practice. The course covers the dangers of radiation and how to protect our patients and ourselves from potential harm. Rules and regulations as they apply to veterinary assistants and technicians are reviewed and a clinic safety plan is developed. Successful completion of this course will allow the individual to meet the State of Nebraska's Radiation Safety requirements.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTS 1301 MEDICAL TERMINOLOGY
Description: Medical Terminology introduces the student to basic words and word structure that are essential in reading and writing medical literature. This course is essential for anyone seeking a better understanding of veterinary medical and scientific terms.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded
VTS 1313 MATH FOR VET TECHS
Description: This course is specifically designed to prepare students for the mathematics used on a daily basis in veterinary nursing as well as on national certification board exams. It includes concepts needed for computations in chemistry and veterinary clinical practice classes. Major subject areas and exercises address conversions within a measurement system and between measurement systems. Computations taught in this course focus on single and multiple step dosage problems and the diluting of stock solutions to desired concentrations.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTS 1403 ANATOMY AND PHYSIOLOGY
Description: Basic body systems are studied at the tissue, organ, and system levels. Comparison of various species of common domestic animals is stressed. Laboratory exercises include a study of the skeletal system and dissection of a typical mammal.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded
Prerequisite for: VTE 2811

VTS 1511 LARGE ANIMAL TECHNIQUES I
Description: A course that deals with animal handling, current issues facing the livestock industry, production trends, terminology, animal growth, structure and selection, breeds, and development.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTS 1513 ANIMAL CARE
Description: This survey course introduces the student to canine and feline husbandry, behavior, species and breed identification, and the human-animal bond. Humane animal care and management is emphasized. The care, handling, nutritional needs basic nursing skills, normal values, and administration techniques, basic grooming and obtaining objective patient data. Effective and appropriate restraint techniques are stressed. Student must be able to lift and carry 50 lbs. to take this class. This is a lecture and lab class. A 70% or above in this class is required to take Nursing I.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTS 1521 LARGE ANIMAL TECHNIQUES II
Description: Prerequisite: VTS 1511 Large Animal Techniques 1 Specific animal physiology of large and small farm animals is studied. The course includes an introduction to nursing procedures required in veterinary practice for farm animals. Safe and effective methods of controlling various kinds of animals are discussed and practiced in a combination lecture and hands-on laboratory format. Equine, bovine, caprine, poultry, and porcine are covered, as well as other species.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTS 1542 FACILITY MANAGEMENT
Description: (Pre req: 20 hours of veterinary clinic observation and completing the NCTA Veterinary Technology Clinic Observation Hours Form) Students study the management of animal holding facilities and the implementation of accepted animal welfare practices. Each student will participate in weekly kennel rotations providing the opportunity to care for the wide variety of animals involved in the veterinary technology program. This includes weekend care.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTS 1604 INTRODUCTION TO LABORATORY SCIENCE
Description: A study of biological and chemical principles and how they pertain to living systems. Through the application of fundamental biology and chemistry, students will survey the biological world in association with production, companion animals and human health. Topics include parasitology, hematology, bacteriology, virology and an overview of laboratory procedures. The goal of this course is to provide students with an introduction to the world of microbes as a foundation for an integrated approach to understanding and managing for optimal, as well as economic, animal health decisions.
Credit Hours: 4
Max credits per semester: 4
Max credits per degree: 4
Grading Option: Graded

VTS 1713 PHARMACY-ANESTHESIA
Description: Pre req: A 70% (C) or higher in VTS 1313 Math for Vet Techs. This course includes the study of pharmacokinetics, pharmacodynamics, dosage calculations, and a survey of the common drug types used in veterinary practice. Adverse drug reactions are discussed.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTS 1822 RADIOLOGY I
Description: (Pre req: 18 years of age and passing of 60% (D) in VTS 1403 Anatomy & Physiology) The student is presented with an overview of radiation safety, the generation of x-rays, machine operation and maintenance, patient positioning, radiographic film exposure, film developing, CT imaging, care of darkroom equipment, evaluation of x-ray quality, and correction in techniques for producing an x-ray the veterinarian can use for diagnostic purposes. The laboratory portion is spent applying radiation safety principles and positioning of animals for radiography using various x-ray machines, film developing and computerized imaging storage techniques. A grade of 70% (C) or higher in Radiology I is required to take Radiology II. Students must be able to lift and carry 50 lbs. and to perform the practical skills to do well in this class. It is important to remember that the hands-on skills in this class must be performed at an adequate entry skill level to do well in the class or on the job.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded
VTS 2241 CAREER STRATEGIES
Description: This course will provide students the opportunity to develop their “intercultural knowledge and competence” and “information literacy” skills and abilities. It will include group activities to help formulate career goals, improve academic success skills, develop a resume and cover letter, select and prepare for an appropriate internship. The course provides preparation for future employment. Students will review OSHA standards and learn about types of performance reviews common in the workplace. Goal setting skills will be sharpened by developing objectives and a way to accomplish them as well as a measure for recognizing success in each area chosen. Students will develop job seeking skills as they locate an internship site.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTS 2243 VETERINARY TECHNOLOGY INTERNSHIP
Description: Pre req: Completion of or enrolled in VTS 2241 Career Strategies, a CGPA of 2.0 or higher, and successful completion of 24 credits in the chosen VTS option. The internship is for a period of 8 weeks. Internship may be done during school breaks that are of at least one week in length or upon completion of all course work. Internship locations and agreements must be approved. For the Veterinary Technician Option, internship must be done with a supervising veterinarian or veterinary technician designated by the veterinarian. Agreements may include more than one site. Official agreements are entered into between the student, the employer, and the college. Students identify learning objectives, design a methodology to accomplish them during the internship and must show substantial progress toward completion of these goals through weekly reports, pictures and evaluations. Students are encouraged to carry their own medical, disability, and liability insurance and receive pre-exposure Rabies vaccination.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Pass No Pass

VTS 2331 CLINICAL PRACTICES
Description: Pre req: VTS 2652 Parasitology, VTS 1822 Radiology I or VTE 2821 Radiation Safety Short Course and VTS 2583 Nursing I. This class provides practical experience and preparation for working in a veterinary clinic setting. The students will be working in the Dr. Walter Long Veterinary Technology Teaching Clinic where basic technician based services are offered to the clinic clientele consisting of NCTA student, faculty and staff owned animals. As a field experience, students work for a minimum of 64 hours during the semester.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTS 2533 LARGE ANIMAL TECHNIQUES III
Description: Prerequisite: VTS 1521 Large Animal Techniques II with a grade of 70% (C) or above. This course includes nursing procedures, radiology, and surgery for production animals and equine. Safe and effective methods of controlling various kinds of livestock are discussed and practiced in a combination of lecture and hands-on laboratory format. Equine, bovine, ovine, caprine, procine and poultry as well as other species may be covered.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTS 2551 LARGE ANIMAL CLINICAL ROTATION
Description: Pre req: grade of 70% (C) or better in VTS 1511 Large Animal Techniques I. Students will have several extended days (32+ hours) of experiential learning opportunities with various large animal clinics/operations in the area, where they will assist in physical exams, vaccinations, pregnancy checks, necropsies, surgeries, and other large animal procedures (as available).
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded

VTS 2553 FUR AND FEATHER
Description: This course is an introduction to the care of the smaller furred, feathered, and scaled animals that veterinary technicians may encounter in clinical practice. Species identification, housing requirements, dietary needs, reproduction, and potential health problems will be discussed. Emphasis will be placed on birds, rodents, small mammals, and reptiles housed at NCTA. This class includes a lecture and lab component.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTS 2583 NURSING I
Description: Prerequisite: VTS 1521 Large Animal Techniques II with a grade of 70% (C) or better in VTS 1513 Animal Care. Basic animal nursing skills that are vital to the veterinary technician career are introduced. A large variety of skills are studied and practiced. This class includes a lecture and lab component. This class must be passed with a 70% (C) or higher to take Nursing II.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTS 2593 NURSING II
Description: Pre req: VTS 1542 Facility Mgt. and VTS 2583 Nursing I. This course is a continuation of Nursing I. Advanced animal nursing skills are studied and practiced. This class includes a lecture and laboratory component. This class is a pre req for VTS 1713 Pharmacy-Anesthesia.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded
VTS 2652 PARASITOLOGY
Description: Pre req: VTS 1604 Intro to Laboratory Science with at least a 70% (C). Students study parasitic life cycles and parasite identification methods for both internal and external parasites of domestic animals, lab animals and birds. This class includes the collection and preparation of samples and diagnostic tests commonly used by veterinary technicians in the field and those available through commercial laboratory analysis. A survey of current therapy and products available for use will be included in this course.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTS 2662 HEMATOLOGY
Prerequisites: Parasitology with at least 70%
Description: Student will learn skills pertaining to the study of blood. Included in the class will be: principles of laboratory safety, proper operation and maintenance of clinical laboratory equipment (microscope, centrifuge, hemacytometer, refractometer, and hemoglobinometer) and preparation of microscopic slides (collection of samples, staining techniques, identification of blood elements, reporting of results, and identification of blood parasites). Correct techniques for performing total blood counts, hematocrits, differentials, reticulocyte counts, coagulation tests and hemoglobin determinations will also be included in this course.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTS 2672 CLINICAL PATHOLOGY
Prerequisites: Hematology with at least a 70%
Description: Students will continue laboratory testing in the areas of hematology (including blood chemistries); parasitology (including skin scraping analysis); bacteriological culturing, isolation and identification; urinalysis and sample submission.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded

VTS 2733 DISEASES OF VET MED
Description: Pre req: VTS 1403 Anatomy and Physiology and VTS 1604 Intro to Laboratory Science. Students study the causes of animal diseases and the principles of preventive veterinary medicine pertaining to livestock, dogs, cats and laboratory animals. Study includes investigation of specific diseases and disease control measures including biosecurity as well as parasite management in animals. Important zoonoses are covered as well. The necropsy lab provides students the opportunity to learn proper necropsy technique, sample collection and submission for diagnostic tests and appropriate disposal procedures.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTS 2823 RADIOLOGY II
Description: Pre req: 60% (D) or higher grade in VTS 1822 Radiology I. This course is a continuation of Radiology I with emphasis placed on principles governing x-ray generation, establishment of technique charts, automatic film development, computerized imaging, exotic, equine, canine and feline radiographs and small animal contrast studies.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTS 2933 ANESTHESIOLOGY
Prerequisites: A grade of 70% or currently enrolled in Radiology I, Nursing II, Pharmacology and Hematology
Description: Principles of small animal inhalation anesthesia, pre-anesthetics, induction and maintenance anesthesia are covered in this class. Pre-surgical patient evaluations, risk classifications, monitoring techniques, equipment, inhalation machines, systems and safety are all studied in both a lecture and lab format. A 70% or higher in Anesthesiology is a pre-requisite Surgery Prep.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

VTS 2954 SURGERY PREPARATION
Description: Pre req: 70% (C) or higher in VTS 2933 Pharmacy-Anesthesia and VTS 2662 Hematology. The student is introduced to the proper preparation of the surgical theater, instruments, equipment and the animal for aseptic surgery. Students perform all the supporting operating room tasks including pre-surgical screening, anesthesia, patient preparation, surgical assisting, suite set-up, pack preparation and recovery. Correct pre-operative and post-operative care of the patient is stressed. The lab is an integral portion of this course.
Credit Hours: 4
Max credits per semester: 4
Max credits per degree: 4
Grading Option: Graded

Program Outcomes For Veterinary Technician Option

1. Upon successful completion of the Veterinary Technician Option, students will be able to demonstrate proficiency in the essential skill tasks outlined by the American Veterinary Medical Association. The Skills List represents the complex role of the veterinary technician and encourages instruction in motor skills, critical thinking, entrepreneurship, and clinical application at the entry veterinary technician level in the following areas.
   - Office and Hospital Procedures
   - Pharmacy and Pharmacology
   - Nursing Skills
   - Anesthesia
   - Radiology
   - Surgical Prep & Nursing
   - Parasitology, Hematology, and Clinical Pathology
   - Animal Husbandry, Handling, Behavior, and Restraint
   - Anatomy
2. Upon successful completion of the Veterinary Technician Option, students will be able to demonstrate the academic background needed to pass a national Veterinary Technician National Exam (licensing). This is assessed through the VT Exit Exam and obtaining a 3.0 CGPA.

Program Outcomes For Veterinary Assistant Option
1. Students will be able to effectively communicate in oral and written formats.
2. Upon successful completion of the Veterinary Assistant Option, students will be able to demonstrate proficiency in the essential skills and tasks outlined by the American Veterinary Medical Association. The skills list represents the complex role of the veterinary assistant and encourages instruction in motor skills, critical thinking, entrepreneurship and clinical application at the entry veterinary technician level in the following areas:
   • Office and Hospital Procedures
   • Pharmacy and Pharmacology
   • Nursing Skills
   • Anesthesia
   • Radiology
   • Surgical Prep and Nursing
   • Parasitology, Hematology, and Clinical Pathology
   • Animal Husbandry, Handling, Behavior, and Restraint
   • Anatomy

Program Outcomes For Animal Husbandry, Animal Health Management, Equine Health Care
1. Students will be able to effectively communicate in oral and written formats.
2. Students will be able to exhibit required knowledge and skills consistent with their chosen field of study. (Technical Competence)
   • Office and Hospital Procedures
   • Pharmacy and Pharmacology
   • Nursing Skills
   • Nursing
   • Animal Husbandry, Handling, Behavior, and Restraint
   • Anatomy

Veterinary Technician Option
Sequence of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
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<tr>
<td>VTS 1403</td>
<td>ANATOMY AND PHYSIOLOGY</td>
<td>3</td>
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<tr>
<td>VTS 1513</td>
<td>ANIMAL CARE</td>
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<td>VTS 1511</td>
<td>LARGE ANIMAL TECHNIQUES I</td>
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<td>VTS 1604</td>
<td>INTRODUCTION TO LABORATORY SCIENCE</td>
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<td>VTS 1313</td>
<td>MATH FOR VET TECHS</td>
<td>3</td>
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<tr>
<td>VTS 1542</td>
<td>FACILITY MANAGEMENT</td>
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Spring
VTS 1521 LARGE ANIMAL TECHNIQUES II 1
VTS 1713 PHARMACY-ANESTHESIA 3
VTS 1822 RADIOLOGY I 2
VTS 2583 NURSING I 3
VTS 2652 PARASITOLOGY 2
VTS 2733 DISEASES OF VET MED 3
VTE 2423 CANINE & FELINE NUTRITION 3

Credit Hours 17

Summer
VTS 2533 LARGE ANIMAL TECHNIQUES III 3
VTS 2563 FUR AND FEATHER 3
SPC 1103 SALES COMM or SPC 1113 PUBLIC SPEAKING 3

Credit Hours 9

Year 2
Fall
VTS 2533 LARGE ANIMAL TECHNIQUES III 3
VTS 2823 RADIOLOGY II 3
VTS 2662 HEMATOLOGY 2
VTS 2933 ANESTHESIOLOGY 3
VTS 2331 CLINICAL PRACTICES 1
VTS 2241 CAREER STRATEGIES 1
ENG 1503 or ENG 1903 TECHNICAL COMMUNICATION I or WRITING & INQUIRY 3

Credit Hours 16

Spring
1st 8 weeks
AED 1023 or PSY 1103 INTERPERSONAL SKILLS FOR LEADERSHIP or HUMAN RELATIONS 3
VTS 2672 CLINICAL PATHOLOGY 2
VTS 2954 SURGERY PREPARATION 4

2nd 8 Weeks
VTS 2243 VETERINARY TECHNOLOGY INTERNSHIP 3

Credit Hours 12

Total Credit Hours 71

Animal Husbandry Option
Suggested Sequence of Study

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<tr>
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<th>Title</th>
<th>Credit Hours</th>
</tr>
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<tr>
<td>Fall</td>
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<td></td>
</tr>
<tr>
<td>VTS 1313</td>
<td>MATH FOR VET TECHS or MTH 1503</td>
<td>3</td>
</tr>
<tr>
<td>VTS 1604</td>
<td>INTRODUCTION TO LABORATORY SCIENCE</td>
<td>4</td>
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<tr>
<td>Select 11 credit hours from:</td>
<td></td>
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<tr>
<td>VTS 1403</td>
<td>ANATOMY AND PHYSIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>VTS 1513</td>
<td>ANIMAL CARE</td>
<td>3</td>
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Course Title

Year 1
Fall
VTS 1511 LARGE ANIMAL TECHNIQUES I 1
VTS 1313 MATH FOR VET TECHS 3
VTS 1301 MEDICAL TERMINOLOGY 1
VTS 1403 ANATOMY AND PHYSIOLOGY 3
ASI 1501 EQUINE SAFETY 1
VTS 1604 INTRODUCTION TO LABORATORY SCIENCE 4
ASI 1442 EQUINE PRACTICUM I 2
VTE 1643 EQUINE HEALTH RECORDS 3
Credit Hours 18

Spring
VTS 1521 LARGE ANIMAL TECHNIQUES II 1
VTS 1713 PHARMACY-ANESTHESIA 3
ASI 2611 EQUINE REPRODUCTION I 2
VTS 2583 NURSING I 3
VTS 2652 PARASITOLOGY 3
Credit Hours 17

Total Credit Hours 71

Equine Health Care Option
Suggested Sequence of Study

Course Title Credit Hours

Year 1
Fall
VTS 1511 LARGE ANIMAL TECHNIQUES I 1
VTS 1313 MATH FOR VET TECHS 3
VTS 1301 MEDICAL TERMINOLOGY 1
VTS 1403 ANATOMY AND PHYSIOLOGY 3
ASI 1501 EQUINE SAFETY 1
VTS 1604 INTRODUCTION TO LABORATORY SCIENCE 4
ASI 1442 EQUINE PRACTICUM I 2
VTE 1643 EQUINE HEALTH RECORDS 3
Credit Hours 18

Spring
VTS 1521 LARGE ANIMAL TECHNIQUES II 1
VTS 1713 PHARMACY-ANESTHESIA 3
Credit Hours 17

Total Credit Hours 71