ASSOCIATE OF APPLIED SCIENCE DEGREE OPTIONS

- Veterinary Technician Option
  - Eligible to sit for the Veterinary Technician National Exam (VTNE) and become a licensed
- Veterinary Assistant Option
- Animal Husbandry Option
- Animal Health Management Option
- Equine Health Care Option

Certificates

- Animal Health Care Certificate
- Laboratory Animal Care Certificate
  - This curriculum helps prepare you to become a certified laboratory animal technician, caring for animals and supporting professionals at institutions looking to solve a multitude of medical problems, like cancer and diabetes, that affect millions of people and animals all over the world.

Veterinary Technician Option Entrance Requirements

Observation hours
Observation hours are a prerequisite for Facility Management class. Incoming students need to spend 80 hours observing or working with technicians and veterinarians in a veterinary practice. We want prospective technicians to know the work and hours that go into caring for the animals people love and care for. Most clinics are very happy to let you observe once you explain that you are pursuing veterinary technology as a career.

Background classes
A strong background in math and science is recommended.

ACT Score
An ACT Score of 18 or higher is recommended to enroll in and complete the Veterinary Assistant or the Technician Option Honors Program in two years. With an ACT score of less than 18, it is recommended that students plan to complete the program in 3 years. The Animal Husbandry, Equine Health, and Animal Health Management Option are open to all students and can be completed in 2 years.

Vaccination Technology
A baccalaureate degree as a Veterinary Technologist can be pursued through a collaborative effort with NCTA’s Veterinary Technician Option Degree and the University of Nebraska-Lincoln. Students interested should inform their advisor of their intent upon initial registration.

Final Assessment – Veterinary Technician Option - Exit Exam
The Exit Exam is one required criteria for the Veterinary Technician Option. At the end of the student’s last spring semester session, the Veterinary Technician Exit Exam is offered. To be eligible to take this exam the Vet Tech student must be able to have successfully completed (with the exception of internship) all required credit hours by the end of the semester. The entire comprehensive examination must be passed with an average grade of 70% or better and each section must be passed with a minimum grade of 60% or higher. A maximum of two sections may be repeated during the provided repeat time. Each student must complete the required classes, have a CGPA of 80% and pass the Exit Exam to graduate with the Veterinary Technician Option.

Final Assessment – Veterinary Assistant
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 Exam exit is taken at the same time as Technician Option students but without passing grade requirements.

Final Assessment - Veterinary Technology Animal
Husbandry, Animal Health Care Management, Equine
Healthcare
The 200 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 that can be found on the NCTA web page.

Veterinary Technician Option and Licensing
To be eligible to work as or to refer to yourself as a veterinary technician in Nebraska, one must graduate from an AVMA accredited Veterinary
Technology Program (Technician Option), pass the VTNE, and become licensed with the state. Each student must complete the required 76 credit hours of classes, have a CGPA of 80% and pass the exit exam to graduate with the Veterinary Technician Option (add) and be eligible to become a licensed technician.

### Veterinary Technician Option-Associate of applied science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td>VTS 1404</td>
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<td>VTS 1511</td>
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<td>PSY 1011</td>
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Students with ACT Less Than 18 will need to 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.

### Veterinary Assistant Option-Associate of applied science

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</table>
Veterinary Technology Systems

VTS 1542  FACILITY MANAGEMENT (or Science)  Credit Hours  19

Summer
Complete Requirements  11
VTS 2823  RADIOLOGY II
SPC 1103  SALES COMM
VTS 2652  PARASITOLOGY
Nutrition (Equine, Canine, Livestock)

Credit Hours  11

Second Year
Fall
Complete Requirements  18
VTS 2533  LARGE ANIMAL TECHNIQUES
VTS 2593  NURSING II
VTS 2662  HEMATOLOGY
VTS 2933  ANESTHESIOLOGY
VTS 2733  DISEASES OF VET MED
VTS 2331  CLINICAL PRACTICES
ENG 1503  or TECHNICAL COMMUNICATION I (Business & Technical Writing)
ENG 1903  or WRITING & INQUIRY

Credit Hours  18

Spring
Complete Requirements  12
VTS 2241  CAREER STRATEGIES
VTS 2672  CLINICAL PATHOLOGY
VTS 2953  SURGERY PREPARATION
AED 1023  INTERPERSONAL SKILLS FOR LEADERSHIP

Credit Hours  12

2nd 8 Weeks
VTS 2243  VETERINARY TECHNOLOGY INTERNSHIP

Credit Hours  12

Total Credit Hours  78

Animal Husbandry Option-Associate of Applied Science

Associate of Applied Science Core
Complete Requirements  20
PSY 1011  LEARNING COMMUNITIES
VTS 1313  MATH FOR VET TECHS
or MTH 150/COLLEGE ALGEBRA
AIT 1003  SOFTWARE PRODUCTIVITY
SPC 1103  SALES COMM
or SPC 1113 PUBLIC SPEAKING
ENG 1503  or TECHNICAL COMMUNICATION I (Business & Technical Writing)
ENG 1903  or WRITING & INQUIRY
AED 1023  INTERPERSONAL SKILLS FOR LEADERSHIP
Biology or Chemistry

Veterinary Technology Courses and Internship  7-8
VTS 1822  RADIOLOGY I
or VTE 2821 RADIATION SAFETY

VTS 1542  FACILITY MANAGEMENT
or ASI 1442  EQUINE PRACTICUM I
VTS 2243  VETERINARY TECHNOLOGY INTERNSHIP
VTS 2241  CAREER STRATEGIES

Veterinary Technology Classes (advisor guided)  30-32
VT or APS Advisory guided classes  14
Electives  3

Credit Hours Subtotal:  76
Total Credit Hours  76

Students with ACT Less Than 18 will need to take:
ENG 103  INTRODUCTION TO COLLEGE READING AND WRITING  3

Equine Health Option-Associate of Applied Science

Course  Title  Credit Hours
First Year
Fall
VTS 1511  INTRO TO ANIMAL SCIENCE  1
PSY 1011  LEARNING COMMUNITIES  1
VTS 1313  MATH FOR VET TECHS  3
VTS 1301  MEDICAL TERMINOLOGY  1
VTS 1404  ANATOMY & PHYSIOLOGY  4
ASI 1501  EQUINE SAFETY  1
ASI 1442  EQUINE PRACTICUM I  2
VTE 1643  EQUINE HEALTH RECORDS  3
Credit Hours  16

Spring
VTS 1521  PRODUCTION ANIMALS I  1
VTS 1713  PHARMACY-ANESTHESIA  3
VTS 1822  RADIOLOGY I  2
VTS 1603  INTRODUCTION TO LABORATORY SCIENCE  3
VTE 2611  EQUINE REPRODUCTION  1
AED 1023  INTERPERSONAL SKILLS FOR LEADERSHIP  3

AIT 1003  SOFTWARE PRODUCTIVITY  3
Credit Hours  16

Summer
VTE 2623  FEEDING THE EQUINE PATIENT  3
SPC 1113  or SPC 1103  PUBLIC SPEAKING or SALES COMM  3

Credit Hours  6

Second Year
Fall
VTS 2533  LARGE ANIMAL TECHNIQUES  3
ENG 1503  or TECHNICAL COMMUNICATION I
or AIT 1003  or WRITING & INQUIRY
VTE 1633  EQUINE DISEASES  3
VTE 1623  EQUINE LABORATORY DIAGNOSTICS  3
ACT 1103  ACCOUNTING I  3
ASI 2433  EQUINE INDUS MNGT I  3
Credit Hours  18

Spring
VTE 2613  EQUINE SURGERY AND ANESTHESIA  3
VTE 2643  EQUINE NURSING  3
BIO 1313  PLANT SCIENCE (or ASI 1024; or CHM 1014)  3
VTS 2241  CAREER STRATEGIES  1
Electives  6
Choose 5 elective Credit hours from below over four semesters:
ASI 1241  RANCH HORSE I
ASI 2443  EQUINE INDUS MNGT II
ASI 1253  NUTRITION
ASI 2412  EQUINE MARKETING TECHNIQUES
VTE 2342  SPANISH FOR VET TECH, SPANISH FOR ANIMAL HEALTH
VTE 2811  ULTRASOUND
ASI 1263  BASIC EQUITATION
VTS 2652  PARASITOLOGY
VTS 2823  RADIOLOGY II
VTE 1611  CONCEPTS IN BITS
VTE 2032  THE WORLD OF WORK
VTS 1532
Credit Hours  16

Summer
VTS 2243  VETERINARY TECHNOLOGY INTERNSHIP  3
Credit Hours  3
Total Credit Hours  75

Students with ACT Less Than 18 will take:
ENG 103  INTRODUCTION TO COLLEGE READING AND WRITING  3

Animal Health management option-
Associate of applied science
76 Credit Hours

College Core
ENG 1903  WRITING & INQUIRY  3
or ENG 1503  TECHNICAL COMMUNICATION I
SPC 1103  SALES COMM  3
or SPC 1113  PUBLIC SPEAKING
MTH 1503  COLLEGE ALGEBRA  3
or VTS 1313  MATH FOR VET TECHS
AIT 1003  SOFTWARE PRODUCTIVITY  3
PSY 1011  LEARNING COMMUNITIES  1
AED 1023  INTERPERSONAL SKILLS FOR LEADERSHIP  3
Select One Science Course from:
ASI 1024  FUND OF ANIMAL BIO
BIO 1104  GENERAL BIOLOGY & LAB
CHM 1104  GENERAL CHEM I

CHM 1004  AGRICULTURAL CHEMISTRY
BIO 1313  PLANT SCIENCE
CHM 1014  CHEMISTRY IN CONTEXT I
Credit Hours Subtotal:  20

Internship
VTS 2243  VETERINARY TECHNOLOGY INTERNSHIP  3
Credit Hours Subtotal:  3

Veterinary Technology Courses
VTS 1301  MEDICAL TERMINOLOGY  1
VTE 2322  INTRO TO VET OFFICE  2
VTE 2821  RADIATION SAFETY  1
VTS 2241  CAREER STRATEGIES  1
VTS 1603  INTRODUCTION TO LABORATORY SCIENCE  3
Credit Hours Subtotal:  8

Select One Nutrition Class
Total Requirements:  2-3
ASI 2262  EQUINE NUTRITION
ASI 1253  NUTRITION
VTE 2422  HILLS NUTRITION
VTE 2423  CANINE & FELINE NUTRITION
Credit Hours Subtotal:  2-3

Select 13-14 Credit hours from the following:
Total Requirements:  13-14
VTS 1404  ANATOMY & PHYSIOLOGY
VTS 1513  ANIMAL CARE
VTS 2563  FUR AND FEATHER
VTS 1521  PRODUCTION ANIMALS I
VTS 1542  FACILITY MANAGEMENT
VTS 1713  PHARMACY-ANESTHESIA
VTS 1822  RADIOLOGY I
VTS 2733  DISEASES OF VET MED
VTE 2342  SPANISH FOR VET TECH, SPANISH FOR ANIMAL HEALTH
Credit Hours Subtotal:  13-14

Complete the following Business Managment Courses:
ACT 1103  ACCOUNTING I  3
MGT 2103  MGT CONCEPTS  3
ACT 1203  ACCOUNTING II  3
MGT 2503  HUMAN RESOURCES MGT  3
Credit Hours Subtotal:  12

Select 12 Credit hours from the following Business Mgt Courses
Total Requirement:  12
ABM 2103  PERSONAL FINANCE
ABM 2403  AG FINANCE
AJT 2503  PUBLIC RELATIONS
ABM 2854  FARM & RANCH MANAGEMENT
ECN 1203  MICROECONOMICS
ECN 1303  MACROECONOMICS
ABM 2503  AGRICULTURAL DECISION ANALYSIS
MKT 2103  RETAIL MARKETING
ABM 2903  ENTREPRENEURSHIP

Total Requirements:  75
### AIT 2103
GRAPHIC DESIGN

### AIT 2153
WEB DESIGN

**Credit Hours Subtotal:** 12

**Select 5 Credit hours from the following Production Ag and Vet Tech Courses:**

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<td>ANIMAL MANAGEMENT</td>
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<td>ASI 2203</td>
<td>FEEDS &amp; FEEDING</td>
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<td>ASI 2353</td>
<td>LIVESTOCK BREEDING</td>
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<td>VTE 1643</td>
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<td>VTE 2612</td>
<td>EQUINE EMERGENCY MEDICINE AND NURSING</td>
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<td>VTE 1633</td>
<td>EQUINE DISEASES</td>
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<td>VTE 2613</td>
<td>EQUINE SURGERY AND ANESTHESIA</td>
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<td>VTE 1623</td>
<td>EQUINE LABORATORY DIAGNOSTICS</td>
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**Credit Hours Subtotal:** 5

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### Animal Care Certificate

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<td>VTE 2101</td>
<td>DOG TRAINING</td>
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<td>INTRO TO VET OFFICE</td>
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<tr>
<td>VTS 1301</td>
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**Total Credit Hours:** 12

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### Laboratory Animal Care Certificate

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**Total Credit Hours:** 20

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### VTE 21 S.T.A.R.S

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Format:** LEC

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### VTE 1021 BASIC DOG GROOMING

**Description:** (Lab 1 hr) Identification of plant pests, including morphology and life cycles of selected insects, weeds, and diseases. Pest control methods include chemical, physical, mechanical, cultural, and biological techniques. Issues such as pesticide laws and regulations, record keeping, labels, storage, and safety are discussed. Application of integrated pest management will be stressed.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Format:** LEC

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### VTE 1401 ANATOMY & PHYSIOLOGY LAB

**Description:** This class 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. Student must have a grade of at least 70% (C) to use as a pre-requisite course.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Format:** LEC

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### VTE 1403 ANATOMY AND PHYSIOLOGY

**Description:** This on-line class studies basic body systems at the tissue, organ and system levels. Comparison of various species of common domestic animals is stressed. Student must have a grade of at least 70% in VTE 1403 and VTE 1301 to use as a per-requisite course.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Format:** LEC

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### 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

**Format:** LEC

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### VTE 1512 ANIMAL CARE

**Description:** This on-line 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

**Format:** LEC
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
Format: LEC

VTE 1621 CALVING ROTATION I
Description: Students observe and assist in calving. Enrollment limited. (Pre req: VTS 2532 Lg Animal Techniques, VTS 2593 Nursing II)
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: FLD

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
Format: LEC

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
Format: LEC

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
Format: LEC

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
Format: LEC

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
Format: IND

VTE 2023 EMERGENCY MEDICINE
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTE 2031 EMERGENCY MEDICINE
Description: Students observe and assist in animal care at an emergency clinic for a minimum of 40 hours. (Pre req: Nursing I with at least 80%)
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: FLD

VTE 2032 THE WORLD OF WORK
Description: Course involves a minimum of 80 hours of field experience at an approved location. This study is tailored to the needs of an individual. Statement of objectives will be required and progress notes will be checked. This class is developed by the student and under the supervision and evaluation of a faculty member. (Pre req: VT faculty permission)
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: FLD

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
Format: FLD

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
Format: LEC
VTE 2322 INTRO TO VET OFFICE
Description: This on-line 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
Format: LEC

VTE 2342 SPANISH FOR VET TECH
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: LEC

VTE 2422 HILLS NUTRITION
Description: This on-line course is an introductory course for students accepted in the veterinary technology program providing identification and function of nutrients, understanding pet food labels, and applications for wellness, life stage, and therapeutic nutrition (prescription foods) for dogs and cats.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: LEC

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
Format: LEC

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
Format: LEC

VTE 2522 EXOTIC PETS SELECTION & CARE
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
Format: LEC

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
Format: LEC

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
Format: LLB

VTE 2553 EXOTICS
Description: (2 hr lect & 1 hr lab) This course is designed as a continuation in learning to care for exotic animals that the veterinary technician may encounter in clinical practice, rehab centers or zoos. Species identification, housing requirements, nursing care, dietary needs, reproduction, and potential health problems and treatments will be discussed. Specific species studied varies depending on the interest of the class. 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 assistants and veterinary technicians working with non-domestic animals.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTE 2573 SAFARI
Description: This course of study is intended for students with a special interest in wildlife and/or exotic animals. Students from other divisions may contribute to a special design based on their department goals or interests. 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. An open to the public presentation is developed following the experience and is intended to address their educational goals. (Pre req for Vet Tech is Fur and Feather and Exotic Animal Care. Other divisions will select courses at the discretion of the area instructor).
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
VTE 2611 EQUINE REPRODUCTION
Crosslisted with: ASI 2611
Description: (Lab 1 hr) This course trains individuals in the techniques of Equine artificial insemination, semen collection, semen handling and shipping, as well as record keeping and various breed association requirements.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTE 2612 EQUINE EMERGENCY MEDICINE AND NURSING
Description: This course explores the world of equine emergencies and nursing care of the horse. It will discuss how to help owners determine true emergencies in the horse versus problems that can wait until morning to see the veterinarian. First aid care and the continued nursing that is needed through recovery. Signs of colic and how to react, splint use and application, emergency drugs to have on hand, controlling hemorrhage, bandaging, wound care, respiratory emergencies and foaling emergencies will be discussed.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: LEC

VTE 2613 EQUINE SURGERY AND ANESTHESIA
Description: (Pre-req: Equine Nursing or concurrent enrollment) 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
Format: LEC

VTE 2621 CALVING ROTATION II
Description: (Pre req: Calving Rotation I) Students observe and assist in calving (if available). Opportunities are available at a variety of sites. Necropsy and various other experiences may present themselves. Enrollment limited.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: LEC

VTE 2623 FEEDING THE EQUINE PATIENT
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
Format: LEC

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 unsedated 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
Format: LEC

VTE 2643 EQUINE NURSING
Description: (Pre-req: Production Animals) This course provides information for veterinary technicians, veterinary assistants and equine health care students to enhance and focus their understanding of equine nursing concepts.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTE 2743 VT OVERVIEW
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
Format: LEC

VTE 2811 ULTRASOUND
Description: The principles of ultra-sound are studied. The student is introduced to basic equipment care and use. Procedures are performed on small and large animals. (Pre-Req VTS 1404 Anatomy)
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: LEC

VTE 2821 RADIATION SAFETY
Description: This 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
Format: LEC

VTE 2821 RADIATION SAFETY
Description: This 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
Format: LEC
VTL 1113 LABORATORY ANIMAL MEDICINE I
Description: Lectures and journal article driven discussions will help students acquire knowledge of topics and skills used by animal research technicians. This course will explore a wide range of topics with the goal of helping prepare students for AALAS certification as an Assistant Laboratory Animal Technician (ALAT). Unique attributes of animal species that accommodate their involvement in particular research studies as models of human disease. Students will also gain an appreciation of animal welfare regulations, guidelines and accreditation standards for the care and use of laboratory animals in biomedical research.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTL 1122 LABORATORY ANIMAL MEDICINE II
Description: (Pre req: Lab Animal Medicine I) In this course, students will learn about skills that are useful for laboratory animal care technicians such as animal restraint and husbandry, rodent surgery, PCR, advanced imaging, and cell culture. Student further learn and implement many of these skills in a lab associated with the course. These topics are represented on AALAS’s Laboratory Animal Technician (LAT) certification exam.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: LEC

VTL 1133 LABORATORY ANIMAL MANAGEMENT
Description: This course addresses the unique aspects important in management of a research colony, such as personnel, quality control, emergency planning, and the management of animal use protocols. These topics are represented on AALAS’s Laboratory Animal Technician (LAT) certification exam.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTS 1262 LABORATORY ANIMAL INTERNSHIP
Description: This 4 week internship provides job experience in the laboratory animal medicine field at an approved work location. Internship may be done during school breaks that are of at least one week in length. Internship locations, agreements and objectives must be approved by the Division. Students will show progress toward completion of objectives through weekly reports and evaluations. Students are encouraged to carry their own medical, disability, and liability insurance. (Pre req: Lab Animal Med II)
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: FLD

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
Format: LEC

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 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
Format: LEC

VTS 1404 ANATOMY & 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. This course is a prerequisite for many other Veterinary Technology courses.
Credit Hours: 4
Max credits per semester: 4
Max credits per degree: 4
Format: LEC

VTS 1511 INTRO TO ANIMAL SCIENCE
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
Format: LEC

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
Format: LEC

VTS 1521 PRODUCTION ANIMALS I
Description: Prerequisites: Intro to Animal Science - a grade of C (70%) or higher (1 hr lab) Specific animal physiology of large and small farm animals is studied. The course includes an introduction to veterinary 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
Format: LEC
VTS 1542 FACILITY MANAGEMENT
Description: (Pre req: 80 observation hours in a veterinary clinic) 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 class includes daily and weekend care for the animals. As a prerequisite for Nursing II it must be passed with a C or above.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: LAB

VTS 1603 INTRODUCTION TO LABORATORY SCIENCE
Description: Through the application of fundamental biology, students will survey the biological world in association with production 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: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTS 1713 PHARMACY-ANESTHESIA
Description: 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
Format: LEC

VTS 1822 RADIOLOGY I
Description: (Pre req: 18 years of age, and a 70% or above in Anatomy) The student is presented with an overview of radiation safety, the generation of x-rays, machine operation and maintenance, patient positioning, radio- graphic film exposure, film developing, CI imaging, care of darkroom equipment, evaluation of x-ray quality, and correction in techniques for producing a film 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% or higher in Radiology I is required to take Radiology II.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: LEC

VTS 2241 CAREER STRATEGIES
Description: This course provides preparation for future employment. Students will develop a cover letter and resume, review OSHA standards, and learn about types of performance reviews common in the work place. 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
Format: LEC

VTS 2243 VETERINARY TECHNOLOGY INTERNSHIP
Description: (Pre req: Completion of or enrolled in Career Strategies and a CGPA of 2.0 or higher) 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.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: FLD

VTS 2331 CLINICAL PRACTICES
Description: 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 Technician 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 80 hours during the semester. (Pre req: Parasitology, Radiology I or Radiation Safety Short Course and Nursing I)
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: LAB

VTS 2533 LARGE ANIMAL TECHNIQUES
Description: (Pre req: Production Animals 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
Format: LEC

VTS 2552 LARGE ANIMAL TECHNIQUES
VTS 2551 LARGE ANIMAL CLINICAL ROTATION
Description: (Pre req: grade of “C” or better in Large Animal Techniques) 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
Format: FLD

VTS 2563 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
Format: LEC

VTS 2583 NURSING I
Description: 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 is pre req for Nursing II. (Pre req: Animal Care)
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTS 2593 NURSING II
Description: 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 Surgery Prep. (Pre req: Facility Mgt. and Nursing I)
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTS 2652 PARASITOLOGY
Description: 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. (Pre req: Intro to Laboratory Science with at least a 70%)
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: LEC

VTS 2662 HEMATOLOGY
Description: (Pre req: Parasitology with at least 70%) 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
Format: LEC

VTS 2672 CLINICAL PATHOLOGY
Description: (Pre req: Hematology with at least 70%) 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
Format: LEC

VTS 2733 DISEASES OF VET MED
Description: 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. (Pre req: Anatomy and Physiology and Intro to Microbiology)
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

VTS 2823 RADIOLOGY II
Description: 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. (Pre req: C (70%) or higher grade in Radiology I)
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
VTS 2933 ANESTHESIOLOGY
Description: (Pre req: A grade of 70% or currently enrolled in Radiology II, Nursing II, Pharmacology and Hematology) 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
Format: LEC

VTS 2953 SURGERY PREPARATION
Description: (Pre req: 70% or higher in Anesthesia, Nursing II, Radiology I, and Clinical Pathology II) 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-and post-operative care of the patient is stressed. The lab is an integral portion of this course.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

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 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 Veterinary Assistant Option
1. Students will be able to effectively communicate in oral and written formats.

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