

Avian, Exotic, Lab Animal Husbandry and Handling

VET 242

2 Credit Hours

Spring 2022

Instructor: Stephanie Shirley, RVT, CVT

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Office: NTU Vet Tech Mod #2 office

Office Phone: 480/294-8047

Office Hours: Monday 12:00 – 1:00 PM

Preferred Communication: Email and/or text, will respond within 24 hrs

Modality (Hybrid): Lecture online via zoom: Lab face to face

Class Location and Meeting Times: Veterinary Technology Mod Lab

Meeting Hours and Online Hours: Monday 90:00- 12:00 PM (zoom); Labs will be announced

Required Materials:

Textbook: Clinical Laboratory Animal Medicine 4th Edition. ISBN-978-1-1183-4510-8

Exotic Animal Medicine for the Veterinary Technician 3rd Edition. ISBN-978-1-118-91428-1

Tools: Calculator, Smock, Stethoscope, Digital thermometer, Bandage scissors, Suture scissors, Universal scissors Equine weight tape, Beef Cow weight tape, Beef Calf weight tape, Black Sharpe pen, Safety goggles, Scrubs (optional), Rubber boots, Coveralls

All of the above tools required for this course are available at the bookstore on campus.

Lab Fee: None

Mission Statement

Mission: Navajo Technical University honors Diné culture and language, while educating for the future.

Vision: Navajo Technical University provides an excellent educational experience in a supportive, culturally diverse environment, enabling all community members to grow intellectually, culturally, and economically.

Philosophy: Through the teachings of Nitsáhákees (thinking), Nahátá (planning), Íina (implementing), and Siihasin (reflection), students acquire quality education in diverse fields, while preserving cultural values and gaining economic opportunities.

Course Description:

This course provides students with knowledge and skills in clinical procedures and focuses on exotic and laboratory animal husbandry, handling, restraint, and specific problems encountered with exotic and lab animals. Prerequisites: VET-230, VET-232, VET-234, and VET-236. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

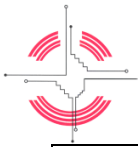
Course Objectives

Every student will learn to:

1. Safely and effectively handle common laboratory animals used in animal research
2. Understand the approach to providing safe and effective care for birds, reptiles, amphibians, guinea pigs, hamsters, gerbils and ferrets.

Course Outcomes

1. Safely and effectively handle common laboratory animals used in animal research:

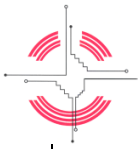


- *Recognize and restrain (mouse/rat, rabbit)**
- *Determine sex and understand reproduction (mouse/rat, rabbit)**
- Perform and/or supervise basic care procedures:
 - *Handling (mouse/rat, rabbit)**
 - Nutritional needs/diet*
 - *Provide food, water and enrichment in a species-appropriate manner (mouse/rat, rabbit)**
 - *Trim nails*
 - Identification*
- *Perform methods of injection:*
 - *Subcutaneous (mouse/rat, rabbit)**
 - *Intramuscular (rabbit)*
 - *Intradermal (rabbit)*
 - *Intraperitoneal (mouse/rat*) [GROUP]*
 - *Intravenous*
- *Collect blood samples*
 - *Intravenous (mice/rat, rabbit) [GROUP]**
- *Perform oral dosing (mouse/rat)* [GROUP]*
- Have working knowledge of anesthetic and recovery procedures*
- Identify and describe clinical signs of common diseases*
- *Perform necropsy and collect specimens*
- *Clean and medicate ears (rabbit)*
- *Anesthetize mouse/rat, rabbit*
- Understand restraint of non-human primates
- Demonstrate knowledge of zoonotic disease and modes of transmission
- The veterinary technician student will be familiar with the basic principles of animal research and understand the utilization of laboratory animals in animal research. The veterinary technician student will also have knowledge of federal, state, and local animal welfare regulations.

Course Measurement: Written exams, practical exams, clinical observation

2. Understand the approach to providing safe and effective care for birds, reptiles, amphibians, guinea pigs, hamsters, gerbils and ferrets:

- *Recognize, understand, and perform restraint techniques of birds*, reptiles, amphibians, and ferrets*
- Understand unique husbandry issues for each species (birds, reptiles, amphibians, guinea pigs, hamsters, gerbils, and ferrets), and provide client education*:
 - Nutritional needs / diet
 - Watering
 - Caging (temperature, humidity, light)
 - Aquarium care
 - Understand reproduction
 - Basic grooming (beak, wing, and nail clipping)
 - Appropriate transportation methods



- Demonstrate the ability to perform a physical exam and accurately record results: birds*, reptiles, amphibians, and ferrets
- Perform nail trim (bird*, exotic, small mammal) [GROUP]
- Perform injections using appropriate sites:
 - Subcutaneous
 - Intramuscular
 - Intradermal
 - Intraperitoneal
 - Intravenous
- Perform oral dosing
- Administer drugs or medications using appropriate sites and routes
- Understand appropriate sites for intravenous catheter placement
- Understand tube feeding in birds
- Perform laboratory procedures
- Anesthetize avian and exotic animals
- Recognize normal and abnormal behavior patterns
- Explain inadvisability of keeping wildlife as pets
- Collect blood samples
- Given the unique requirements of these species, the veterinary technician student will safely obtain subjective and objective data that will allow evaluation of the patient. The veterinary technician student will be able to:
 - Identify husbandry issues
 - Discern appropriate from inappropriate nutritional support
 - Recognize normal from abnormal behavior patterns

Course Measurement: Written exams, practical exams, clinical observation

Connections to Program Assessment (Course-Embedded Measures)

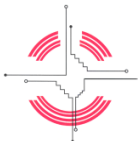
SLO: Perform patient assessment & nursing procedure

Grading Plan:

Points:

Item	Points	Percentage
Class participation	6	1%
Midterm	150	25%
Final	210	35%
Homework	120	20%
Projects/Presentations/Labs	54	9%
Quizzes (Weekly)	60	10%
Total Points:	600	100%

Letter Grade	Percent
A	100 – 92%
B	91 – 83%
C	82 – 75%
D	74 – 60%
F	59 – 0%



Course Policies

Classroom / Clinic Policy

Students are expected to act and dress in a professional, safe and ethical manner. This includes good behavior and professional/safe dress (smocks, scrubs, no caps, no sandals, no long fingernails, no dangling jewelry, no loose/baggy clothing, well groomed). Students will treat animals and clients properly and professionally. Students should handle this course as part lab and practice proper safety and hygiene. Students will not be able to participate in the clinic if not properly dressed with safety and professionalism in mind and without the required equipment (Smock, Stethoscope, Digital thermometer, Bandage scissors, Equine weight tape, Black Sharpie pen). Students without required equipment will be IMMEDIATELY sent to the bookstore to purchase required equipment. Students are NOT allowed to give clients their opinion on diagnoses, interpretation of lab results, treatments, or prognoses—doing so will result in IMMEDIATE dismissal from the Veterinary Technology program.

Grading Policy

Students must do their own work on homework assignments and exams. Discussion among students on homework and cases is encouraged for clarification of assignments, technical details of using software, and structuring major steps of solutions. Cheating and plagiarism are strictly forbidden. Cheating includes but is not limited to: plagiarism, submission of work that is not the student's own, submission or use of falsified data, unauthorized access to exams or assignments, use of unauthorized material during an exam, supplying or communicating unauthorized information for an assignment or exam. Cheating will result in a zero (0) score on the assignment or exam, and possibly the course depending on the nature. Students are required to make prior arrangements with the Instructor if they are unable to take an exam as scheduled; final decision to take the exam at a different time is at the discretion of the Instructor. Students need to notify the Instructor of their emergency (life or death) situation before the exam is given; final decision to take the exam at a different time is at the discretion of the Instructor.

Participation

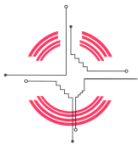
Students are expected to attend and participate in all class activities- as listed above, as it is part of the grade. Points will be given to students who actively participate in class activities including field trips, laboratories, and ask questions of guest speakers and other presenters. A major portion of the learning process consists of your active participation in class and in the hospital including the observation of others especially in the clinical setting. Keeping up with the assigned reading will allow you to contribute to class and case discussions and enhance your understanding of the topics and your ability to perform the procedures in the clinical setting. Listening to your classmates' presentations and providing them with appropriate feedback will also enhance your learning and class participation. Participation in this course and all other courses in the Veterinary Technology curriculum requires scheduled on-call time which includes but is not limited to the proper feeding, watering, and general care of the NTU sheep and chickens. Failure to participate in the care of these animals may result in failure of this course.

Cell Phone and Headphone Use

Please turn cell phones off or place them on silence or vibrate mode **BEFORE** coming to class. Also, answer cell phones **OUTSIDE OF CLASS** (not in the classroom). Cell phones used during class will be confiscated until the end of class. Exercising cell phone use courtesy is appreciated by both the instructor and classmates. Headphones are to be removed before coming to class.

Computer / Printer / Telephone Use

Students will not be allowed to use computers during class & clinic times unless permitted by the instructor. Printers are for assignments only. Continued violation of this request will result in loss of privileges. The copier and fax are for office use only. Do not ask to use the clinic telephones for personal



business; inform your friends and family members not to call you during class and clinic times. Telephones are for veterinary-related business only.

Attendance Policy

Students are expected to attend all class sessions. A percentage of the student's grade will be based on class attendance and participation. Absence from class, regardless of the reason, does not relieve the student of responsibility to complete all course work by required deadlines. Furthermore, it is the student's responsibility to obtain notes, handouts, and any other information covered when absent from class and to arrange to make up any in-class assignments or tests if permitted by the instructor. Incomplete or missing assignments will necessarily affect the student's grades. Instructors will report excessive and/or unexplained absences to the Counseling Department for investigation and potential intervention. **Instructors may drop students from the class after three (3) absences unless prior arrangements are made with the instructor to make up work and the instructor deems any excuse acceptable.**

Tardiness

Tardiness is disruptive to your classmates and the instructor. One (1) point will be docked from your overall points for every day you are late up to ten (10) minutes. Tardiness beyond ten (10) minutes is considered an absence. Attendance will be taken at the beginning of class. It is your responsibility to make sure you sign in on the sign-in sheet if you arrive late for class.

Study Time Outside of Class for Face-to-Face Courses

For every credit hour in class, a student is expected to spend two hours outside of class studying course materials.

Study Time for Hybrid or Blended Courses

For a hybrid or blended course of one credit hour, a student is expected to spend three hours per week studying course materials.

Study Time for Online Courses

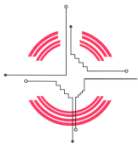
For an online course of one credit hour, a student is expected to spend four hours per week studying course materials.

Academic Integrity

Integrity (honesty) is expected of every student in all academic work. The guiding principle of academic integrity is that a student's submitted work must be the student's own. Students who engage in academic dishonesty diminish their education and bring discredit to the University community. Avoid situations likely to compromise academic integrity such as: cheating, facilitating academic dishonesty, and plagiarism; modifying academic work to obtain additional credit in the same class unless approved in advance by the instructor, failure to observe rules of academic integrity established by the instructor. **The use of another person's ideas or work claimed as your own without acknowledging the original source is known as plagiarism and is prohibited.**

Diné Philosophy of Education

The Diné Philosophy of Education (DPE) is incorporated into every class for students to become aware of and to understand the significance of the four Diné philosophical elements, including its affiliation with the four directions, four sacred mountains, the four set of thought processes and so forth: Nitsáhákees, Nahát'á, Íina and Siih Hasin which are essential and relevant to self-identity, respect and wisdom to achieve career goals successfully.



At NTU's Zuni Campus, the A:shiwí Philosophy of Education offers essential elements for helping students develop Indigenous and Western understandings. Yam de bena: dap haydoshna: akkya hon detsemak a:wannikwa da: hon de:tsemak a:ts'umme. *Our language and ceremonies allow our people to maintain strength and knowledge.* A:shiwí core values of hon i:yyułashik'yanna:wa (respect), hon delank'oha:willa:wa (kindness and empathy), hon i:yyayumola:wa (honesty and trustworthiness), and hon kohoł lewuna:wediyahnan, wan hon kela i:tsemanna (think critically) are central to attaining strength and knowledge. They help learners develop positive self-identity, respect, kindness, and critical thinking skills to achieve life goals successfully.

Students with Disabilities

Navajo Technical University is committed to serving all students in a non-discriminatory and accommodating manner. Any student who feels that she or he may need special accommodations should contact the Accommodations Office (<http://www.navajotech.edu/student-services#accomodations-services>) in accordance with the university's Disability Accommodations Policy (see [http://www.navajotech.edu/images/about/policiesDocs/Disability Exhibit-A_6-26-2018.pdf](http://www.navajotech.edu/images/about/policiesDocs/Disability_Exhibit-A_6-26-2018.pdf)).

Email Address

Students are required to use NTU's email address for all communications with faculty and staff.

Final Exam Date: May 9, 2022 @ 9 am

THIS SYLLABUS IS SUBJECT TO CHANGE BY THE INSTRUCTOR