

Ms. Nikki Smith
 Phone: 229.225.5050
 nsmith@tcjackets.net

**VETERINARY SCIENCE
 2022 - 2023**



**Cluster: Agriculture, Food and Natural Resources
 Pathway: Veterinary Science**

Course Description: The agricultural education course in veterinary science covers the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care. The target population is career preparatory students desiring to continue education after high school or to enter the workforce after graduation from high school. College preparatory students benefit from the course as an elective if they plan to enter college and pursue a degree to enter the veterinary profession. This course allows students entering the workforce after graduation from high school to develop entry-level skills to become employed and to continue education on the job.

Course of Study:

Topic:	Standards:
EMPLOYABILITY SKILLS REQUIRED BY BUSINESS AND INDUSTRY	AFNR-VS-1
AGRICULTURE EDUCATION, SAFETY, AND LEADERSHIP	AFNR-VS-2
COMMON HAZARDS IN THE VETERINARY HOSPITAL	AFNR-VS-3
SANITATION, DISINFECTION, AND STERILIZATION	AFNR-VS-4
VETERINARY TERMS	AFNR-VS-5
BODY SYSTEMS	AFNR-VS-6
INTRO TO ANIMAL ANATOMY	AFNR-VS-7
ANIMAL EVALUATION	AFNR-VS-8
COMMON PROCEDURES	AFNR-VS-9
INTRO TO PARASITES	AFNR-VS-10
ANIMAL NUTRITION	AFNR-VS-11
UNDERSTANDING FEED LABELS	AFNR-VS-12
INTRO TO DISEASES	AFNR-VS-13
IMPORTANCE OF ANIMALS	AFNR-VS-14
COMMON BREEDS	AFNR-VS-15
ANIMAL BEHAVIOR	AFNR-VS-16

In addition to content standards, students will be responsible for showing mastery of the Common Core literacy standards. These standards will be taught using reading and writing activities related to the content area. Reading materials may include novels, technical manuals, articles or other appropriate materials as determined by the instructor.

P.R.E.P Academy Grading Policy:

Daily Grades/In Class Assignments	25%
Supervised Agriculture Experience	5%
Tests	20%
Projects/Lab Work	30%
Benchmark (Final)	20%

Textbook:

Students will not be issued a textbook for this class, but one will be available for classroom use. *Textbook for the Veterinary Assistant.*

Students will need paper and a notebook for this course.

Classroom Rules/Conduct:

All students are expected to abide by the rules of the Agriculture Department and those of TCCHS at all times.

1. **Respect your classroom environment, teacher, classmates, and teaching animals.**
2. **NO HORSEPLAY!**
3. **Clean up after yourself**
4. **No personal electronic devices in class.**
5. **Come to class on time and prepared to learn.**
6. **Use the bathroom before and after class, not during class time.**
7. **Do not leave class without being dismissed.**

Computer Use:

Students will be required to access the Internet for some assignments and projects. Each student must have an Acceptable Use Policy (AUP) on file at the school. All policies in the AUP will be followed.

Students should only use the Internet when instructed for classroom purposes. Students who are caught downloading/streaming music, on inappropriate websites, attempting to bypass the server, or participating in other questionable activities will receive a referral and their computer privileges may be revoked.

Make Up Work:

It is the student's responsibility to check with the teacher about any missed work or tests. The student will have THREE days to contact me before or after class about completing make up work. Any work not completed or scheduled to complete after three days will be counted as a zero.

Late Work:

Late work is accepted HOWEVER, each day late is minus 10 points from the assignment's overall grade.

Google Classroom:

Join the Veterinary Science google classroom. Each class period has a different code.

1st period class code: etrzuvf

5th period class code: 2j4bkht

Additional Information: All Veterinary Science classes will participate in labs that are relevant and industry specific. As a part of our curriculum fetal pig dissection will be a part of this course work, as well as the dissection of reproductive tracts of several livestock species. All lab work will be scientifically based and anatomically correct terminology will be used.

In addition to dissections, there will be LIVE ANIMALS in class throughout the year. Please be mindful of their well-being as well as yours. If you have any pet dander allergies or fear of animals, please take this into consideration during class selection.

Course: Veterinary Science

Instructor: SMITH

Week	Topic/Standard	Essential Question(s)
WEEK 1	Animal Roles in Society	Why are animals important to society?
WEEK 2	Issues in the Animal Industry	What are some common issues in the Animal Industry?
WEEK 3-5	Care & Management of Species	Why is it important to understand characteristics of certain breeds?
WEEK 6-8/9	Vet Terminology	What are the two languages that influence veterinary terminology?
WEEK 10-18	Body Systems 1. Interconnectedness 2. Integumentary 3. Skeletal 4. Muscular 5. Nervous 6. Cardiovascular 7. Respiratory 8. Digestive/Nutrition 9. Urinary 10. Reproductive 11. Endocrine 12. Immune	How does the body maintain homeostasis?
WEEK 19-21	Pharmacology	How is math important to veterinary science?
WEEK 22-24	Biosecurity/Diseases	What are the most common diseases seen in domesticated animals?
WEEK 25-26/27	Parasitology	What are common symptoms of parasites?
WEEK 28-29	Exam Room	What is the importance of a thorough physical exam?
WEEK 30-32	Hospital Procedures	What are the most common hospital procedures performed in a veterinary hospital?
WEEK 33-34	Office Management	How does a veterinary hospital maintain order?
WEEK 35/36	FFA/SAE	How can the FFA and an SAE benefit a career in Veterinary Science?

Ms. Nikki Smith
Phone: 229.225.5050
nsmith@tcjackets.net

Veterinary Science
2022 - 2023



Live Work Policy

Purpose:

Certain occupational areas require specific skills or competency mastery that can be obtained or demonstrated in a laboratory environment with real items or projects. A laboratory environment introduces the "customer dimension" into personal service occupations such as cosmetology and provides real-world working conditions to such industrial and technical occupations as auto mechanics, auto body repair, welding, building construction and others. Instructional Live Work Projects, when carefully managed and controlled, provide a needed dimension to laboratory learning for certain occupations as a planned and integrated component of the curriculum.

1. Live work is used for instructional purposes only and must fit into the instructional program at the time it is accepted.
2. Live work will be performed totally for educational purposes and will not be in competition with local businesses.
3. All local businesses will be given equal opportunity to provide live work supplies.
4. All live work will be completed by the students and supervised by the instructor. The only time the instructor will do a live job is for demonstration purposes only.
5. No guarantee for live work is given by the student, the instructor, the school administration, or the Board of Education. The Thomas County School System accepts no responsibility for fire, damage, or theft.
6. All concerns regarding live work should be directed to the Agricultural Teacher first and then to the CTAE supervisor.
7. All materials, parts, and supplies used or required must be paid for by the client.
8. Arrangements must be made between the instructor and client about procurement of supplies and materials.
9. All money received for live work must be receipted on an official school receipt and deposited in the school account (school bookkeeper).
10. A 20% lab fee will be charged to cover miscellaneous costs as well as to be applied to the Agriculture Department School Fund.
11. Live work items are not to be released until invoices are paid in full.
12. Students involved in the program will have first priority. Second priority will be other students, faculty and staff. Third priority to others will be determined by the instructor.
13. Priority of live work will be based on "first come, first served" policy. Please allow a 2-4 weeks turn-around period (this time period may vary based on the complexity of your project).

<p>Ms. Nikki Smith Phone: 229.225.5050 nsmith@tcjackets.net</p>	<p>Veterinary Science 2022 - 2023</p>	 <p>Preparing for Relevant Economic Pursuits PREP ACADEMY</p>
---	---	---

Goods & Services Policy

Products generated by the veterinary science department will either be used for the instructional program (replacement of layer hens, practice eggs for poultry CDE), or will be sold. The sale of products includes but is not limited to, eggs, chicks, rabbits, honey, and dog biscuits. The sale of services includes, but is not limited to, dog grooming. A receipt will be issued for every product and service sold by the Veterinary Science Department. The funds generated from the sale of products and services will be deposited into the Agriculture Education account through the school. This account is used to purchase feed and supplies for the agriculture program. Prices will be set based on current market prices and input from the Ag. Advisory Committee.

Ms. Nikki Smith
Phone: 229.225.5050
nsmith@tcjackets.net

**Veterinary Science
2022 - 2023**



Skills/Objectives

- Use common terminology required in the veterinary practice.
- Keep assigned work areas clean and orderly.
- Demonstrates a basic knowledge of sanitary procedure.
- Handles animals in a safe humane manner.
- Can name and select the equipment items most commonly used in veterinary practice.
- Demonstrates a basic understanding of the most commonly used veterinary drug.
- Handles and disposes of "sharps" instruments safely and in compliance with practice standards.
- Uses the proper procedure for lifting and positioning animals.
- Uses the proper procedure for placing animals in a cage.
- Describes the proper procedure for placing large animals in a stall.
- Describes the proper method of haltering a large animal.
- Properly restrains animals for cephalic and saphenous venous sampling.
- properly muzzles animals.
- Handles and holds animals so as to generally avoid bites to themselves and to attending veterinarian.
- Recognizes and avoids potential safety hazards in the examination room or area.
- Handles and uses disposable "sharps" containers in a safe manner.
- Explains OSHA guidelines in collecting and disposing of biohazardous materials.
- Demonstrates or explains the proper method of collecting fecal samples
- Uses correct quantities of feces for fecal flotations.
- Can explain client options for disposition of euthanized or deceased animals.
- Knows proper methods for collecting urine samples that are adequate to be cultured.
- Knows the correct use of shielded gowns, gloves and other protective wear when taking radiographs.
- Safely cares for animals in runs, cages, and enclosures.
- Uses the bedding types indicated for specific breeds/species of housed animals.
- Changes bedding materials in a timely and efficient manner.
- Disposes of used bedding materials as needed and in a proper manner.
- Recognizes and avoids safety hazards in the areas where patients are housed.
- Uses proper sanitary procedures in changing bedding materials.
- Maintains and repairs cages, kennels, and stalls as needed.
- Describes the proper use of common devices and equipment to restrain horses, cattle, goats, and swine for treatment.
- Recognizes common breeds and varieties of exotic animals.
- Safely handles and restrains exotic animals for examination and treatment.
- Describes the procedure for autoclave of veterinary instruments.

Ms. Nikki Smith
Phone: 229.225.5050
nsmith@tcjackets.net

**Veterinary Science
2022 - 2023**



Skills/Objectives Cont.

- Describes or demonstrates the proper method for administration of tablets, capsules, liquid, and topical drugs for canine and feline patients.
- Stores animal feeds according to instructions.
- Measures food quantities accurately. Read and follow food label directions correctly.
- Reads and correctly follows written instructions for animal feeding.
- Reports animal food and water consumption rates correctly and on schedule.
- Selects the correct syringe on demand.
- Correctly fill syringes with medication as directed.
- Recognizes intravascular, intramuscular, subcutaneous, and intraperitoneal applications.
- Select correctly the needle gauge and length requested.
- Properly disposes of syringes, needles, and other sharp objects commonly used in the veterinary clinic.
- Properly identifies and disposes of expired substances.
- Obtains information relative to animals being boarded and/or discharged.
- Discusses and explains the charges for boarding costs.
- Posts and records money collected to the appropriate records as directed.
- Interacts appropriately with clients.