



Veterinary Science Pathway

Clint High School

Veterinary Science Pathway

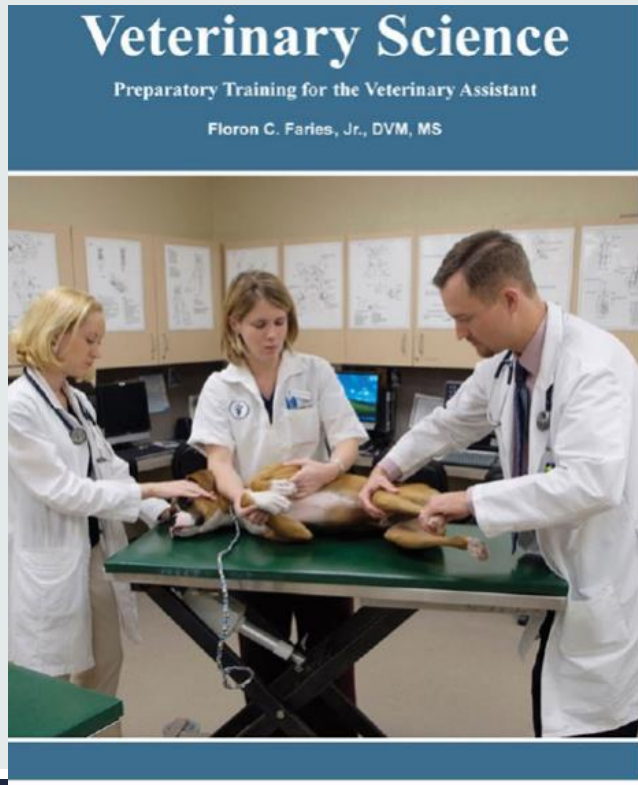
- Overview of Program
- Program Requirements
- Curriculum
- Certification & Licensing
- Cohort #'s
- Selection Process



Curriculum Outline – Texas A&M Agrilife/4-H & TEKS

4-H

- 100 Lessons to complete
- Powerpoint of 100 Lessons
- TEKS alignment – Just released 12/1



TEKS

- Classes need to be aligned to what your school offers

Small Animal Management

Veterinary Medical Applications

Advanced Animal Science

CURRICULUM/COURSE REQUIREMENTS

- @ CLINT HIGH SCHOOL....not state
- Have 3 years to complete requirements
- Lesson requirements will be broken into 3 school years(100 lessons)
- Internship of 300 hours must be completed before examination/graduation

10 th grade	Small Animal Management .5 credit	Equine Science .5 Credit
11 th grade		Advanced Animal Science
12 th grade		Veterinary Medical Applications
Internship	300 total hrs	

Veterinary Science Lesson Plan Model

1. The Profession of Veterinary Medicine
2. The Veterinary Assistant
3. Animals & Society
4. Office Procedures
5. Client Communications
6. Employee Communications
7. Clinic Infectious Disease Control
8. Storage of Foods
9. Caring for Patients
10. Pain Recognition
11. Environmental Sanitation
12. Bedding & Housing of Patients
13. Anatomy & Physiology of Animals
14. Integrated Resource Management
15. Records & Record Keeping
16. Marketing Animals

- | | |
|--|--|
| 1. The Profession of Veterinary Medicine | 54. Economic Losses |
| 2. The Veterinary Assistant | 55. Anthrax Control Program |
| 3. Animals & Society | 56. Pseudorabies Control Program |
| 4. Office Procedures | 57. Pullorum-Typhoid, Avian Influenza, & Exotic Newcastle Disease Control Programs |
| 5. Client Communications | 58. Bovine Trichomoniasis Control Program |
| 6. Employee Communications | 59. Vesicular Stomatitis Control Program |
| | 60. West Nile Encephalitis Control Program |
| | 61. Diseases Common to Humans & Animals |
| | 62. Animal Assisted Therapy |
| | 63. Causes of Infectious Diseases |
| | 64. Infectious Diseases: Digestive System |
| | 65. Infectious Diseases: Respiratory & Reproductive Systems |
| | 66. Infectious Diseases: Integumentary System |
| | 67. Infectious Diseases: Cardiovascular & Lymphatic Systems |
| | 68. Infectious Diseases: Musculoskeletal & Nervous Systems |
| | 69. Infectious Diseases: Special Senses & Generalized Diseases |
| | 70. Infectious Diseases: Non-Infectious Diseases |
| | 71. Poisoning |
| | 72. Insecticides |
| | 73. Plants |
| | 74. Infectious Non-Infectious Diseases: Prevention Program |
| | 75. Disease Avoidance Program |
| | 76. Special Regulations |
| | 77. Waste Disposal |
| | 78. Welfare Regulations |
| | 79. Internal Parasites |
| | 80. External Parasites |
| | 81. Biological Products |
| | 82. Management of Small Animals |
| | 83. Control & Eradication Programs |
| | 84. Nutrition |
| | 85. Instruments & Technology |
| | 86. Surgical Preparation & Procedures |
| | 87. Anesthesia |
| | 88. Preparing Hands & Field Operation |
| | 89. Sterile Gloves & Gowns |
| | 90. Pesticide Regulations |
| | 91. Laws Related to Veterinary Medicine |
| | 92. Natural, Accidental, & Intentional Outbreaks of Disease |
| | 93. Emergency Animal Management During Disasters |
| | 94. Clinic Emergency Management Plans |
| 43. Applying Bandages | |
| 44. Handling & Administering Medications | |
| 45. Rehabilitation | |
| 46. Bacteriologic Tests | |
| 47. Fecal, Blood, & Urine Examinations | |
| 48. Special Examinations | |
| 49. Radiology | |
| 50. Post-Mortem Examinations | |
| 51. Genetics & Disease | |
| 52. The Battle Against Disease | |
| 53. Food & Animal Diseases | |



Internship

300 hours in an
approved facility

Begin end of
Freshman year



[Home](#) ▶ [Animal Services](#)

ANIMAL SERVICES

915-212-PAWS

[HOME](#) [FIND MY PET](#) [FIND ADOPTABLE PETS](#) [ADOPTION INFO](#) [ANIMAL SERVICES FIELD OPERATIONS](#) [FEES AND FORMS](#)

[HOURS AND LOCATION](#) [ANIMAL SHELTER ADVISORY COMMITTEE](#) [CALENDAR OF EVENTS](#) [COMMUNITY CATS](#) [SURRENDER PREVENTION](#)

[SHELTER SERVICES](#) [LOW-COST SPAY NEUTER SERVICES](#) [SPAY NEUTER INFO](#) [VOLUNTEER](#) [CONTACT US](#)



City of El Paso Animal Services

En route to NO KILL Shelter

Daily Surgeries (spay/neuter)

Fostering

Employment Atmosphere

Microchipping, surgery prep,
monitoring anesthesia, vital
signs



Real world & Hands on

- Interaction in working setting
- Adult supervisors
- NO CELL PHONES
- Accountability
- Community mission & outreach



Other
Experiences





VISIT

ANIMALS

EXPERIENCES

LEARN

MEMBERSHIP

Q ZOO CAMS

CONTACT

EggstravaganZoo

April 11th & 12th | 10am-4pm

Happening At The



VISIT

ANIMALS

EXPERIENCES

LEARN

MEMBERSHIP

Q ZOO CAMS

CONTACT

Programming

New Opportunities

Clinical Skills for the Classroom

Assisting in Surgery Skills

- Preparing a Surgical Site of a Dog
- Removing Sutures in a Dog
- Preparing a Surgical Pack for Sterilization
- Opening a Surgical Pack
- Gowning & Gloving for Surgery

Assisting in Bandaging Skills

- Applying Bandage to Leg of a Horse
- Removing Bandage From Leg of a Horse

Assisting in the Laboratory Skills

- Using a microscope





Clinical Skills

Office & Farm Experiences

- **Assisting in Restraining & Handling Small Animals Skills**

- Removing a Dog From a Cage
- Restraining a Dog in Sternal Recumbency
- Removing a Cat From a Cage
- Restraining a Cat in Lateral Recumbency

- **Assisting in Restraining & Handling Large Animals Skills**

- Tying a Bowline Knot on a Horse
- Tying a Clove Hitch on a Horse Stanchion
- Tying a Reefer's Knot on a Horse Stanchion
- Placing a Tail Tie on a Cow
- Haltering a Cow
- Using a Nose Tong in a Cow
- Haltering a Horse
- Using a Nose Twitch and Clamp in a Horse



Certification

Licensed Veterinarian Assistant

TVMA

Exam fee is \$135

Proctored through county agent at
your school



HIGH SCHOOL CVA LEVEL I SKILLS VALIDATION CHECKLIST

VERIFICATION

(MUST BE SUPERVISED & CHECKED OFF BY DVM OR TX LVT ONLY)

NOTE: All competencies must be either performed or described by the applicant, even if a certain species is not seen by the practice.

APPLICANT'S NAME

First Name: Last Name:

SKILLS VALIDATION CHECKLIST SUPERVISOR'S INFORMATION

Supervisor Title: (Check One): ☐ DVM ☐ Texas LVT ☐ RVT/CVT/LVT*
(*CVT, RVT or LVT supervision allowed out of State)

First Name: Last Name:

Clinic Name:

Clinic Address:

City State Postal Code:

Clinic Phone: () Fax: ()

PERIOD OF OBSERVATION: From Date: To Date:

Supervisor's Signature:

By affixing my signature above, I certify that the student named above has demonstrated competency in the behaviors and skills checked herein, and I recommend that this student be considered for certification at Veterinary Assistant Level I.

Validation
Checklist
by Vet

- 1. Describes vaccinations for cattle.
- 2. Describes vaccinations for horses.
- 3. Describes vaccinations for sheep & goats.
- 4. Describes vaccinations for dogs.
- 5. Describes vaccinations for swine.
- 6. Describes vaccinations for cats.
- 7. Recognizes the symptoms commonly associated with animals affected by rabies.
- 8. Uses procedures that ensure personal safety when handling animals suspected of having rabies.
- 9. Demonstrates a basic understanding of the most commonly used veterinary drugs.
- 10. Properly identifies and disposes of expired substances.



HIGH SCHOOL CVA LEVEL I SKILLS VALIDATION CHECKLIST

(MUST BE SUPERVISED & CHECKED OFF BY DVM OR TX LVT ONLY)

NOTE: All competencies must be either **performed** or **described** by the applicant, even if a certain species is not seen by the practice.

Applicant has demonstrated reasonable proficiency or competency in the following work requirements:

Performed	OR	Described	Skill or Competency
<input type="checkbox"/>	<input type="checkbox"/>		Uses common terminology (spoken and written) required in your veterinary practice
<input type="checkbox"/>	<input type="checkbox"/>		Keeps assigned work areas clean and orderly
<input type="checkbox"/>	<input type="checkbox"/>		Demonstrates a basic knowledge of sanitary procedures
<input type="checkbox"/>	<input type="checkbox"/>		Handles animals in a safe, humane manner
<input type="checkbox"/>	<input type="checkbox"/>		Can name and select the equipment items most commonly used in your veterinary practice
<input type="checkbox"/>	<input type="checkbox"/>		Demonstrates a basic understanding of the most commonly used veterinary drugs
<input type="checkbox"/>	<input type="checkbox"/>		Recognizes the symptoms commonly associated with animals affected by rabies
<input type="checkbox"/>	<input type="checkbox"/>		Uses procedures that ensure personal safety when handling animals suspected of having rabies
<input type="checkbox"/>	<input type="checkbox"/>		Demonstrates appropriate understanding and respect for the human-animal bond in dealing with clients and their animals
<input type="checkbox"/>	<input type="checkbox"/>		Handles and disposes of "sharps" instruments safely and in compliance with practice standards
<input type="checkbox"/>	<input type="checkbox"/>		Uses the proper procedure for lifting and positioning animals
<input type="checkbox"/>	<input type="checkbox"/>		Uses the proper procedure for placing animals in a cage
<input type="checkbox"/>	<input type="checkbox"/>		Uses proper method for placing large animals in a stall

Performed	OR	Described	Skill or Competency
<input type="checkbox"/>	<input type="checkbox"/>		Uses (or can describe) the proper method of haltering a large animal
<input type="checkbox"/>	<input type="checkbox"/>		Practices (or can describe) the proper personal safety precautions when releasing a large animal
<input type="checkbox"/>	<input type="checkbox"/>		Properly restrains animals when assisting the veterinarian with cephalic and saphenous venous sampling
<input type="checkbox"/>	<input type="checkbox"/>		Properly muzzles fractious animals
<input type="checkbox"/>	<input type="checkbox"/>		Handles and holds animals so as to generally avoid bites to themselves and to the attending veterinarian
<input type="checkbox"/>	<input type="checkbox"/>		Demonstrates (or describes) the proper method of moving cattle and horses through chutes and into or out of stalls
<input type="checkbox"/>	<input type="checkbox"/>		Recognizes and avoids potential safety hazards in the examination room or area
<input type="checkbox"/>	<input type="checkbox"/>		Handles animals in the examination room or area so as to prevent harm to the patient and humans
<input type="checkbox"/>	<input type="checkbox"/>		Carefully observes patients and surroundings and reports observations to the attending veterinarian
<input type="checkbox"/>	<input type="checkbox"/>		Aids the veterinarian in the handling and treatment of patients
<input type="checkbox"/>	<input type="checkbox"/>		Provides an additional set of eyes and hands for the attending veterinarian
<input type="checkbox"/>	<input type="checkbox"/>		Handles and uses disposable "sharps" containers in a safe manner
<input type="checkbox"/>	<input type="checkbox"/>		Follows OSHA guidelines in collecting and disposing of bio-hazardous materials

Applicant has demonstrated reasonable proficiency or competency in the following work requirements:

Performed	OR	Described	Skill or Competency
<input type="checkbox"/>	<input type="checkbox"/>		Demonstrates (or explains) the proper method of collecting fecal samples (including the palpation sleeve) in the large animal
<input type="checkbox"/>	<input type="checkbox"/>		Uses correct quantities of feces for fecal flotations
<input type="checkbox"/>	<input type="checkbox"/>		Recognizes fresh fecal samples
<input type="checkbox"/>	<input type="checkbox"/>		Can explain client options for disposal of euthanized or deceased animals
<input type="checkbox"/>	<input type="checkbox"/>		Discusses individual or communal cremation options with owners of deceased pets
<input type="checkbox"/>	<input type="checkbox"/>		Properly prepares the deceased animal for presentation to the owner
<input type="checkbox"/>	<input type="checkbox"/>		Exhibits proper decorum when presenting a deceased animal to its owner
<input type="checkbox"/>	<input type="checkbox"/>		Correctly collects urine through natural means
<input type="checkbox"/>	<input type="checkbox"/>		Knows proper method for collecting urine samples that are adequate for culturing microorganisms
<input type="checkbox"/>	<input type="checkbox"/>		Collects urine samples during the correct time of day
<input type="checkbox"/>	<input type="checkbox"/>		Correctly uses shielded gowns, gloves, and other protective wear when taking radiographs
<input type="checkbox"/>	<input type="checkbox"/>		Wears a monitoring device while taking radiographs
<input type="checkbox"/>	<input type="checkbox"/>		Handles used and stores radiographic cassettes and film properly
<input type="checkbox"/>	<input type="checkbox"/>		Bathes and dries patients as instructed
<input type="checkbox"/>	<input type="checkbox"/>		Avoids basic hazards and species susceptibilities to certain bath and dip products when preparing and giving dips and baths

Performed	OR	Described	Skill or Competency
<input type="checkbox"/>	<input type="checkbox"/>		Follows accepted procedures when bathing or dipping patients
<input type="checkbox"/>	<input type="checkbox"/>		Safely cares for animals in runs, cages, stalls and paddocks
<input type="checkbox"/>	<input type="checkbox"/>		Uses the bedding types indicated for specific breeds/species of housed animals
<input type="checkbox"/>	<input type="checkbox"/>		Changes bedding materials in a timely and efficient manner
<input type="checkbox"/>	<input type="checkbox"/>		Disposes of used bedding materials as needed and in a proper manner
<input type="checkbox"/>	<input type="checkbox"/>		Recognizes and avoids safety hazards in the areas where patients are housed
<input type="checkbox"/>	<input type="checkbox"/>		Uses proper sanitary procedures in changing bedding materials
<input type="checkbox"/>	<input type="checkbox"/>		Maintains and repairs cages, kennels and stalls as needed
<input type="checkbox"/>	<input type="checkbox"/>		Properly uses (or describes the proper use of) common devices and equipment to restrain horses, cattle, goats and swine for treatment
<input type="checkbox"/>	<input type="checkbox"/>		Recognizes common breeds and varieties of exotic animals that visit the clinic and calls them by the correct common name
<input type="checkbox"/>	<input type="checkbox"/>		Safely handles and restrains exotic animals for examination and treatment
<input type="checkbox"/>	<input type="checkbox"/>		Autoclaves veterinary instruments using moist pressure autoclave and chemical sterilization
<input type="checkbox"/>	<input type="checkbox"/>		Follows a prescribed procedure for cleaning all stainless steel instruments
<input type="checkbox"/>	<input type="checkbox"/>		Follows correct procedure for ultrasonic cleaning of instruments
<input type="checkbox"/>	<input type="checkbox"/>		Lubricates instruments properly during the cleaning process

Applicant has demonstrated reasonable proficiency or competency in the following work requirements:

Performed	OR	Described	Skill or Competency
<input type="checkbox"/>	<input type="checkbox"/>		Maintains all dental equipment in clean and usable condition for performing prophylaxis treatments
<input type="checkbox"/>	<input type="checkbox"/>		Determines that all active scavengers are working properly in evacuating anesthesia gases as needed
<input type="checkbox"/>	<input type="checkbox"/>		Ensures that all sharp and cutting blades are removed and disposed of properly following surgical procedures
<input type="checkbox"/>	<input type="checkbox"/>		Describes (or demonstrates) the proper method for administration of a paste or topical drug on an equine patient
<input type="checkbox"/>	<input type="checkbox"/>		Describes (or demonstrates) the proper method for administration of a bolus, paste or topical drug for a bovine patient
<input type="checkbox"/>	<input type="checkbox"/>		Describes (or demonstrates) the proper method for administration of tablets, capsules, liquid and topical drugs for canine and feline patients
<input type="checkbox"/>	<input type="checkbox"/>		Stores animal foods according to instructions
<input type="checkbox"/>	<input type="checkbox"/>		Measures food quantities accurately
<input type="checkbox"/>	<input type="checkbox"/>		Reads and follows food label directions correctly
<input type="checkbox"/>	<input type="checkbox"/>		Reads and correctly follows written instructions for animal feeding
<input type="checkbox"/>	<input type="checkbox"/>		Reports animal food and water consumption rates correctly and on schedule

Performed	OR	Described	Skill or Competency
<input type="checkbox"/>	<input type="checkbox"/>		Administers hydrotherapy according to directions
<input type="checkbox"/>	<input type="checkbox"/>		Selects the correct syringe on demand from the veterinarian
<input type="checkbox"/>	<input type="checkbox"/>		Correctly fills syringes with medication as directed
<input type="checkbox"/>	<input type="checkbox"/>		Recognizes intravenous, intramuscular, subcutaneous, and intraperitoneal applications
<input type="checkbox"/>	<input type="checkbox"/>		Selects correctly the needle gauge and length requested by the veterinarian
<input type="checkbox"/>	<input type="checkbox"/>		Properly disposes of syringes, needles and other sharp objects commonly used in the veterinary clinic
<input type="checkbox"/>	<input type="checkbox"/>		Properly identifies and disposes of expired substances
<input type="checkbox"/>	<input type="checkbox"/>		Obtains information relative to animal being boarded and/or discharged
<input type="checkbox"/>	<input type="checkbox"/>		Discusses and explains the charge for boarding costs
<input type="checkbox"/>	<input type="checkbox"/>		Posts and records money collected to the appropriate records as directed
<input type="checkbox"/>	<input type="checkbox"/>		Interacts cheerfully with clients and handles complaints with a smile

Certification Exam

HS

OFFICE USE ONLY

**CERTIFIED VETERINARY
CVA
ASSISTANT**

1

HIGH SCHOOL CVA LEVEL I EXAM APPLICATION
—PLEASE PRINT—

APPLICANT'S INFORMATION

First Name: _____ Last Name: _____
Address: _____
City: _____ State: _____ Postal Code: _____
Phone: (____) _____ Email: _____
Date of Application: _____
Applicant's Signature: _____

SUPERVISOR'S INFORMATION

I certify that the student named above has met the **200 hours** classroom requirements of hands-on training.
Supervisor Title: (Check One): ☐ Ag Teacher ☐ DVM ☐ Texas LVT ☐ RVT/CVT/LVT* ☐ Home School Co-op Teacher
(*CVT, RVT or LVT supervision allowed out of State)
First Name: _____ Last Name: _____
School Name: _____
School Address: _____
City: _____ State: _____ Postal Code: _____
Clinic Phone: (____) _____ Fax: (____) _____
PERIOD OF OBSERVATION: From Date: _____ To Date: _____
Supervisor's Signature: _____
By affixing my signature above, I certify that the applicant named above has worked under my supervision for at least 90 days and has demonstrated competency in the behaviors and skills checked herein, and I recommend that this applicant be considered for certification as Veterinary Assistant Level I.

PAYMENT INFORMATION

The exam fee is \$125/applicant. A check can be mailed or payment by credit card can be mailed or faxed to: TVMA • 8104 Exchange Drive • Austin, Texas 78754 • 512452-4234 • Fax: 512452-6633. Results will be mailed to the high school after scoring is complete.
(Check One): ☐ Visa ☐ MasterCard ☐ American Express
Card Number: _____ Exp Date: _____ CVC: _____
Name on card: _____ Signature: _____

HS

**CERTIFIED VETERINARY
CVA
ASSISTANT**

2

**HIGH SCHOOL CVA LEVEL I
CLINICAL HANDS-ON TRAINING
VALIDATION**
(MUST BE SUPERVISED & CHECKED OFF BY DVM OR TX LVT ONLY)

APPLICANT'S NAME

First Name: _____ Last Name: _____

SKILLS VALIDATION CHECKLIST SUPERVISOR'S INFORMATION

Supervisor Title: (Check One): ☐ DVM ☐ Texas LVT ☐ RVT/CVT/LVT*
(*CVT, RVT or LVT supervision allowed out of State)
First Name: _____ Last Name: _____
Clinic Name: _____
Clinic Address: _____
City: _____ State: _____ Postal Code: _____
Clinic Phone: (____) _____ Fax: (____) _____
PERIOD OF OBSERVATION: From Date: _____ To Date: _____
TOTAL HANDS-ON TRAINING HOURS: _____
(minimum 300 total hours required for CVA certification)
Supervisor's Signature: _____
By affixing my signature above, I certify that the student named above has trained or worked under my supervision for the required hours of HANDS ON TRAINING WITH LIVE ANIMALS (shadowing hours do not count towards certification).



- El Paso Animal Services
- El Paso Zoo – Cat Café
- El Paso Humane Society

MOU's

Partnerships

Selection Criteria for Cohort

- Dedicated student that is willing to go above & beyond
- Not your typical student
- Interest in a life science career after high school (Dr, Nurse, Vet, Biology, Research)
- Not the “stereo typical” Ag/FFA student
- Parent support & Commitment
- Student ability to stay interested
- Teacher Evaluation Criteria Reports

Complete the Application



*Please print or type in Blue or Black ink

Veterinary Science Program Application 2021 - 2022 **Cohort #7**

Student I.D. (Clint ISD only)	Student Name		Home Address
Date of Birth	Current Age	Student Email Address	Student Cell Phone
Mothers Name		Mother Cell Phone	Mother Email
Father Name		Father Cell Phone	Father Email
Junior High Attended			9 th grade attended if other than Clint High School

Write an Essay

Parent & Student



Application Essay
2021 – 2022 School Year

Please submit the completed essay with the application

Student's Name

Parent Name

Student Current Grade

To be completed by the **PARENT** in the parent's own handwriting. Legibility is critical for valid evaluation.

The Clint High School Veterinary Science Program is looking for students who welcome academic challenges in the areas of animal science and hands on experiences with small and large animals. Please explain *why you want your child to attend the Clint High School Veterinary Science Program*. Discuss and include how you will help your child stay committed, be organized and excel in this program.

Veterinary Science Pathway

- 300 internship hours
- 200 classroom hours
- 100 classroom lessons

Ability to work towards AP/Dual Credit/On Ramps
and continue is STEM program with different pathway



Contact Information

Nikki Boutwell
Ag Science Teacher
Clint High School
Clint Tx

Nicholle.Boutwell@Clint.net

915-525-6100