



INSTITUTE FOR
INFECTIOUS ANIMAL DISEASES

A Department of Homeland Security Science & Technology Center of Excellence

A Career Explosion: Become a Veterinary Paraprofessional

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Professor & Extension Specialist

Texas A&M AgriLife Extension Service

Institute for Infectious Animal Diseases

Texas A&M University System

TEXAS A&M
AGRI LIFE
EXTENSION

A Career Explosion!

**Veterinary Science Certificate Program
career development for the
veterinary paraprofessional**

Career Track Educational Program

- Clinical
- One Health
- Laboratory
- Business

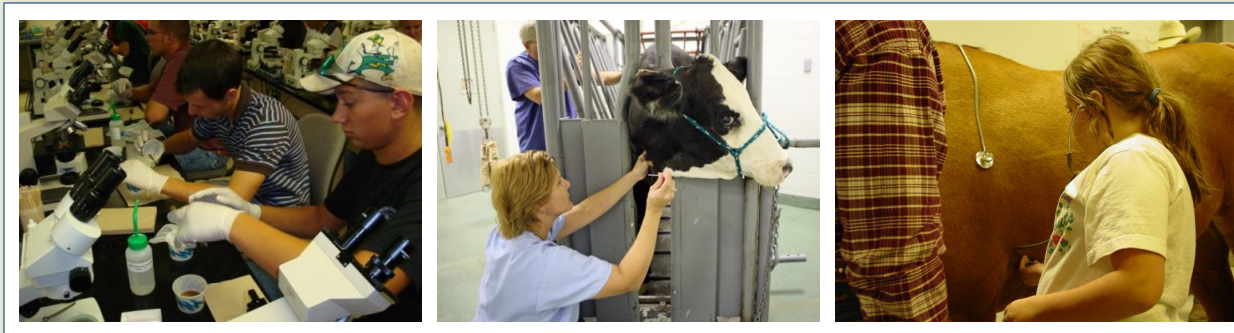


Veterinary Assistant Classification

- Successfully completes curriculum



- Successfully completes apprenticeship
 - Minimum 500 work hours in skills



Veterinary Science Curriculum

- 4-H Curriculum
 - Veterinary Science
- Homeschool Curriculum
 - Veterinary Science
- Independent-Study Curriculum
 - Veterinary Science
- High School Curriculum (Public, Private, Home School)
 - Veterinary Science
 - Veterinary Medical Applications
 - Veterinary Assisting
 - Veterinary Assistant
- Community College Curriculum
 - Veterinary Science

Certificate of Completion of Curriculum (without classification)

- Successfully completes curriculum
 - 100 Lessons
 - 50 Activities
 - Lesson questions
 - Activity reports
- Title Classification – none



Clinical Veterinary Science Apprenticeship

- **Minimum 500 Clinical Skills Hours**
 - Work hours
 - Hands-on work assignments
 - Supervision: veterinarians and/or registered/certified/licensed veterinary technicians

**Veterinary Science Certificate Program for
Veterinary Science Students
Across the Nation**

Certificate of Completion of Program (with classification)

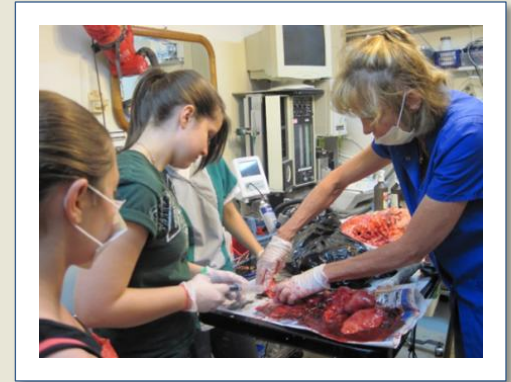
- Successfully completes curriculum
 - 100 Lessons
 - 50 Activities
 - Lesson questions
 - Activity reports
- Successfully completes apprenticeship
 - Work hours
 - Minimum 500 skills hours
- Title Classification – Veterinary Assistant (VA)



**Veterinary Science Certification Program for
Veterinary Science Students
Across the Nation**

Certified Veterinary Assistant (CVA)

- Clinical Career Track Program
- One Health Career Track Program
- Laboratory Career Track Program
- Business Career Track Program



Certified Veterinary Assistant (CVA)

- Clinical Career Track Program
 - Completed curriculum
 - Completed apprenticeship
 - Validated clinical skills checklist
 - Passed state examination
 - Certified by state veterinary medical association
 - <http://tvma.org>
 - Level I – minimum 500 clinical skills hours
 - DVM &/or RVT/CVT/LVT supervision
 - Level II – minimum 1500 clinical skills hours
 - Level III – minimum 2500 clinical skills hours



Certified Veterinary Assistant (CVA)

- **One Health Career Track Program**

- Completed curriculum
- Completed apprenticeship
- Certification process (pending)

- **Laboratory Career Track Program**

- Completed curriculum
- Completed apprenticeship
- Certification process (pending)

- **Business Career Track Program**

- Completed curriculum (pending)
- Completed apprenticeship (pending)
- Certification process (pending)



Specialties of Employment

- Clinical
 - Patient care
- Regulatory
 - One Health: epidemiology – integrated animal health, human health, environmental health
- Laboratory
 - Research
 - Diagnostics
- Business
 - Management

**Veterinary Technology Credentialing Program for
Community College Veterinary Technology Students
Across the Nation**

Veterinary Technician (VT)

- Completed Veterinary Technology Program
 - AVMA Accredited Community College
 - <http://avma.org>
- Received 2-Year Associate Degree
 - Applied Science
 - Veterinary Technology

VT Community Colleges in Texas

- Blinn College – Bryan
- Cedar Valley College – Lancaster
- Lone Star College – Tomball
- McLennan Community College – Waco
- Palo Alto College – San Antonio
- The Vet Tech Institute – Houston
- Vista College – Lubbock

Registered/Certified/Licensed Veterinary Technician (RVT), (CVT), (LVT)

- Passed national examination
 - American Association of Veterinary State Boards (AAVSB)
 - <http://aavsb.org>
- Passed state examination
 - state veterinary medical association,
 - state veterinary medical licensing board, or
 - state veterinary technician association
- Credential by state
 - Registered: RVT
 - Certified: CVT
 - Licensed: LVT

Specialties of Employment

- Regulatory
 - One-health: epidemiology – integrated animal health, human health, environmental health
- Laboratory
 - Research
 - Diagnostic laboratory
- Education
 - Teaching
- Clinical
 - Patient care

Career Development Educational Program

- Certificate – Veterinary Assistant (VA)
- TVMA Certification by Examination – Certified Veterinary Assistant (CVA)
- College Education Preparation
 - Associate Degree – AD in veterinary technology
 - Undergraduate Degree – BS in sciences
 - Professional Degree – PhD in sciences
 - Professional Degree – DVM in veterinary medicine

College Graduate – DVM or PhD

- Evaluate interests and abilities
 - Sciences
 - Animals
- Make commitment (focus, blinders)
 - Highly motivated and dedicated
- Work with scientists
 - Veterinarians
 - Science specialists
 - Animal science specialists
- Work with animals
 - Large, small, exotic animals

High School Degree Plan

- Advanced sciences
 - Calculus
 - Statistics
 - Physics
 - Chemistry (inorganic, organic, biochemistry)
 - Zoology (genetics, nutrition, biology)
 - Microbiology
 - Animal science
 - Veterinary science

College Degree Plan

- Initial college enrollment
 - Community college
 - Senior college
 - Know how to study
 - Study habits
 - Time management
 - Focused
 - Large classes
- College plans
 - Plan A – BS-PhD degree program
 - Plan B – BS-DVM degree program

College BS Degree (Pre-PhD) (Pre-DVM)

- **College of Veterinary Medicine & Biomedical Sciences**
 - Biomedical Science
- **College of Agriculture & Life Sciences**
 - Animal Science
 - Poultry Science
 - Wildlife & Fisheries Science
 - Nutrition & Food Science
 - Biological & Agricultural Engineering
 - Biochemistry
 - Genetics

- **College of Science**
 - Biology
 - Chemistry
 - Microbiology
 - Molecular & Cell Biology
 - Zoology
 - Marine Biology
 - Genetics

- TAMU at Galveston
 - Marine Biology

College BS Courses

- Biology
- Microbiology
- Genetics
- Nutrition
- Animal Science
- Inorganic chemistry
- Organic chemistry
- Biochemistry
- Statistics
- Physics
- Calculus

Professional College Application

- Veterinary School – DVM

<http://vetmed.tamu.edu/>

- Graduate School – PhD

Professional Career

- DVM Degree
 - Licensed Veterinarian
 - State/National Board Exam
 - State Board of Veterinary Medical Examiners
- PhD Degree
 - Nutritionist
 - Reproductive Physiologist
 - Molecular Geneticist
 - Biochemist – Toxicologist
 - Microbiologist – Parasitologist
 - Epidemiologist
 - Wildlife Biologist – Marine Biologist

Specialties of Employment

- Regulatory (DVM, PhD)
 - One-health: epidemiology – integrated animal health, human health, and environmental health
- Laboratory (DVM, PhD)
 - Research
 - Diagnostic laboratory
- Education (DVM, PhD)
 - Teaching
- Clinical (DVM)
 - Diagnosis, treatment



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4-H Veterinary Science Certificate Program

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Veterinary Science

Preparatory Training for the Veterinary Assistant

Floron C. Faries, Jr., DVM, MS



- Goals
- Objectives
- Curriculum
- Apprenticeship



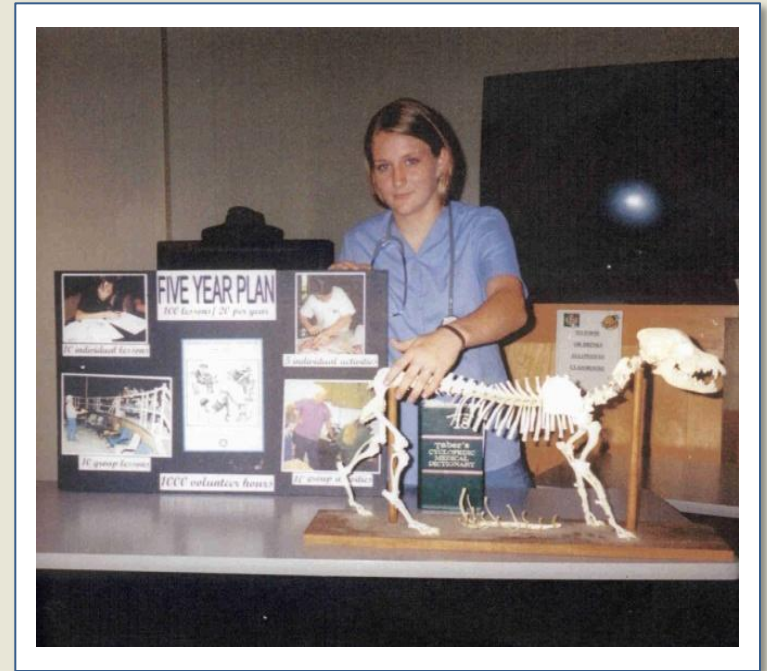
Program Goals

1. Develop a personalized curriculum
2. Empower youth
3. Help youth to learn
4. Help youth to work (Trainee)
 - Shadow/Observations
 - **Observation Hours (Sufficient number)**
 - Trainee
 - Apprenticeship/Assignments
 - **Skills Hours (Minimum 500 required)**
 - Trainee
 - Salaried



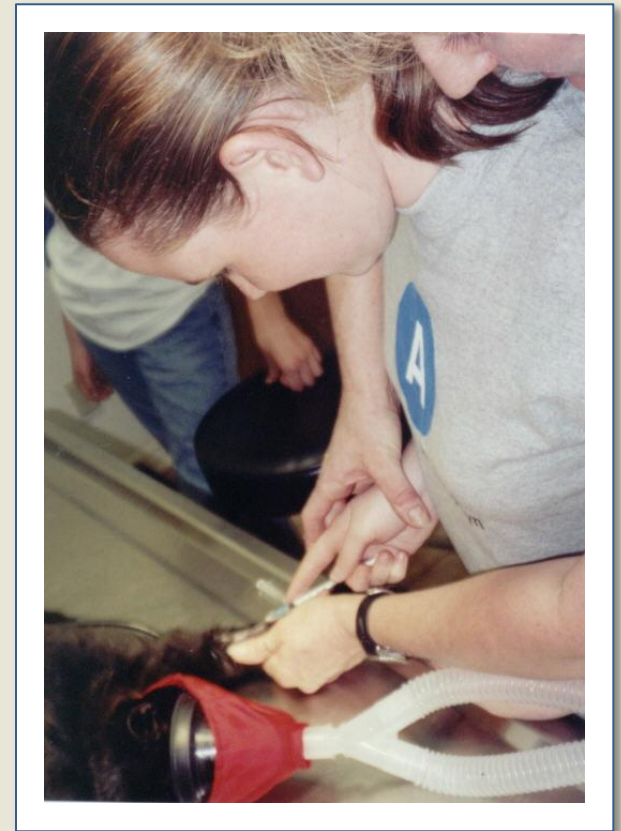
Program Objectives

1. Utilize career-oriented resource material
2. Develop the interest, knowledge, skills, and experiences
3. Prepare youth to be job trained



Curriculum Plan

- 20 Lessons per year (100)
 - Group Lessons: Schedule 10
 - Individual Lessons: Assign 10
- 10 Activities per year (50)
 - Group Activities: Schedule 5
 - Individual Activities: Assign 5
- Lesson questions for grade
- Activity reports for grade



Certificate of Completion of Program (with classification)

- Successfully completes curriculum
 - 100 Lessons (100%)
 - 50 Activities (100%)
 - Lesson questions (>60 grade)
 - Activity reports (>60 grade)
- Successfully completes apprenticeship
 - Work hours
 - Minimum 500 skills hours
- Title Classification – Veterinary Assistant (VA)



Extension Name or Logo

4-H Veterinary Science

Certificate of Completion of Program

Title of

Veterinary Assistant

Presented to

Student's Name



County Extension Agent

4-H Volunteer Leader

Award for Excellence

- Successfully completes curriculum
 - 100 Lessons (100%)
 - 50 Activities (100%)
 - Lesson questions (100 grade)
 - Activity reports (100 grade)
- Successfully completes apprenticeship
 - Work hours
 - Minimum 500 skills hours



4-H Veterinary Science

Award of Excellence

Presented to

Student's Name



County Extension Agent

4-H Volunteer Leader

Certificate of Completion of Curriculum (without classification)

- Successfully completes curriculum
 - 100 Lessons (100%)
 - 50 Activities (100%)
 - Lesson questions (>60 grade)
 - Activity reports (>60 grade)
- Unsuccessfully completes apprenticeship
- Title Classification – none



Extension Name or Logo

4-H Veterinary Science

Certificate of Completion of Curriculum

Presented to

Student's Name



County Extension Agent

4-H Volunteer Leader

Certificate of Participation

- Unsuccessfully completes curriculum
 - <100 Lessons (>60%)
 - <50 Activities (>60%)
 - Lesson questions (>60 grade)
 - Activity reports (>60 grade)
- Unsuccessfully completes apprenticeship
- Title Classification – none

Extension Name or Logo

4-H Veterinary Science

Certificate of Participation

Presented to

Student's Name



County Extension Agent

4-H Volunteer Leader

Contact Information

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Questions

