

**CAVIT Veterinary Science Program/
Two Year 720-Hour Program/
Scope and Sequence**

Semester 1 – 180 Hours

District Pre-Assessment

Unit 1: Orientation

10 Class Hours

- CAVIT Handbook
- Program Syllabus
- Roles and Responsibilities
- Rules and Procedures

**Unit 2: Intro to The Vet Industry & Basic
Veterinary Terminology**

30 Hours 20 Classroom, 10 Lab

- Roles & Responsibilities of the Veterinary Healthcare Team
- Human Animal Bond
- Identification of the Stages of Grief
- Medical Record Keeping Procedures
- Veterinary Oath & Professionalism

HOSA: Officer Elections, Chapter Meeting
Work-Based Learning: Simulated Lab Experience
ADE Standard: 2.1-4, 2.8, 3.4, 4.1-3, 4.7,
Priority Assessments: Quizzes, End of Unit
Assessment, Medical Chart Rubric, Roles &
Responsibilities Simulation Rubric, Stages of Grief
Simulation Rubric, Professionalism Rubric

Unit 3: Animal Behavior & Restraint

50 Hours 20 Classroom, 30 Lab

- Appropriate Safety Equipment
- Differentiate Between Normal vs. Abnormal Behavior
- Bite Case Protocol & Procedures
- Kenneling Procedures
- Proper Body Ergonomics
- Canine Restraint Techniques
- Feline Restraint Technique

HOSA: Chapter Meeting
Work-Based Learning: Simulated Lab Experience
ADE Standard: 5.14, 5.18, 7.1-5, 7.9
Priority Assessments: Quizzes, End of Unit
Assessment, Feline Restraint Rubrics, Canine

Restraint Rubrics, Kenneling Rubric, Ergonomics
Rubric, Safety Equipment Rubric, Bite Protocol
Simulation Rubric, Normal vs. Abnormal Scenario
Case Studies Evaluation

Unit 4: Basic Small Animal Nursing

60 Hours – 20 Classroom, 40 Lab

- Patient Vital Collection
- Nose to Tail Assessment
- Patient SOAP Medical Record
- Patient Medical History
- Basic Grooming Techniques
- Ear/Eye Medication Administration
- Oral Medication Administration Techniques
- Bandaging Types & Application
- Nutritional Requirements
- Wellness Care & Vaccine Protocols
- Abnormal Patient Health Symptoms
- Patient Triage & Common Emergencies

HOSA: Chapter Meeting

Work-Based Learning: Simulated Lab Experience
ADE Standard: 2.5-6, 7.8, 8.1-5, 8.10-11, 8-15-16
Priority Assessments: Quizzes, End of Unit Test,
Medication Administration Skills Rubric, Bandaging
Skills Rubric, Patient Vitals Rubric, Nose to Tail
Assessment Rubric, Medical History Rubric, SOAP
Rubric, Eye/Oral Medication Rubric, Wellness Care
Scenario Evaluation, Triage Scenario Evaluation,
Nutritional Calculation Scenario Evaluation

Unit 5: Hospital Safety & Sanitation Part 1

30 Hours – 15 Classroom, 15 Lab

- Basic Sanitation Techniques: Chemical & Biological Spills
- Proper Hand Hygiene
- SDS Identification & OSHA Protocols
- Workplace Evacuation Procedures

HOSA: Chapter Meeting, Team Building
Work-Based Learning: Simulated Lab Experience
ADE Standard: 5.1, 5.5-6, 5.9-13, 5.16-17
Priority Assessments: Quizzes, End of Unit Test,
Safety Assessment, Hand Hygiene Rubric,
Workplace Hazard Scenario Evaluation

Semester 2 – 180 Hours

Unit 6: Hospital Safety & Sanitation Part 2

30 Hours – 10 Classroom, 20 Lab

- PPE Protocols
- Isolation Procedures
- Identify Communicable & Zoonotic Diseases

HOSA: Chapter Meeting, Team Building

Work-Based Learning: Simulated Lab Experience

ADE Standard: 5.4, 5.7-8

Priority Assessments: Quizzes, End of Unit Test, PPE

Rubric, Isolation Scenario Evaluation, Disease Case

Study Evaluation

Unit 7: Small Animal Anatomy & Physiology

100 Hours 50 Classroom, 50 Lab

- Animal Anatomy Systems
- Musculoskeletal System
- Circulatory System
- Gastrointestinal System
- Urinary System
- Nervous System
- Endocrine System
- Reproductive System
- Sensory System
- Integumentary System
- Respiratory System
- Immune System

HOSA: Chapter Meeting

Work-Based Learning: Simulated Lab Experience

ADE Standard: 11.1 -11

Priority Assessments: Quizzes, End of Unit Test,

System Diagram Evaluations, Internal Organ

Labeling & Dissection Evaluation

Unit 8: Species Exploration & Breed Identification

40 Hours –30 Classroom, 10 Lab

- AKC Dog Breeds
- CFA Cat Breeds
- Equine Breeds
- Large Animal Husbandry
- Exotic Animal Husbandry

HOSA: Chapter Meeting

Work-Based Learning: Simulated Lab Experience

ADE Standard: 7.6-7, 8.14

Priority Assessments: Quizzes, End of Unit Test,

Equine Haltering & Restraint Rubric, Large Animal

Husbandry Scenario Evaluation, Exotic Species
Scenario Evaluation

Unit 9: Fear Free Certification

10 Hours – 10 Classroom, 0 Lab

- Fear Free Certification Program Online
- Demonstrate Scenarios of Fear Free Techniques

HOSA: Chapter Meeting

Work-Based Learning: Simulated Lab Experience

ADE Standard: 7.1-9

Priority Assessments: Online Industry Certification
Test

District Post-Assessment

Semester 3 – 180 Hours

District Pre-Assessment

Unit 1: Orientation

10 Class Hours

- CAVIT Handbook
- Program Syllabus
- Roles and Responsibilities
- Rules and Procedures

Unit 2: Introduction to Advanced Veterinary Science

20 Hours – 10 Classroom, 10 Lab

- Workplace Safety Review
- Recordkeeping Skills
- Communication/Client Relations
- Behavioral Assessment/Restraint
- Patient Care/Vitals
- Sanitation/Disinfection
- Review of Body Systems
- Medical Terminology Review

HOSA: Officer Elections, Chapter Meeting

Work-Based Learning: Simulated Lab Experience

ADE Standard: 1.0-1.10, 2.0-2.9, 3.0-3.7, 5.1, 7.0-7.10,
8.1-8.6, 8.8, 8.11, 8.15, 11.0-11.11

Priority Assessments: Quizzes, Possible Repeat Rubrics
for Skills Practice, Interview Evaluation for Clinic Roles

Unit 3: Veterinary Front Desk & Office Procedures and Protocols

40 Hours – 10 Classroom, 30 Lab

- Public Clinic / Vet Hospital Roles (Assistant, Manager, Communications Officer, Receptionist, Float)
- Introduction to Practice Software
- Scheduling Client Appointments
- Proper Phone Etiquette/Records Request
- Admitting & Discharging Patients
- Basic Filing and Medical Records
- Medical Record Review and Completion including Sterilization & Vaccine Certs
- Invoicing, Billing, Payment Procedures
- Verbal/Written Client Communication

HOSA: Chapter Meeting and Content Review, PCACC Community Service

Work-Based Learning: Simulated Lab Experience

ADE Standard: 1.1-1.10, 2.7-2.9, 3.1-3, 3.5-7

Priority Assessments: Quizzes, End of Unit Assessment, Simulated Lab Experience/Patient Care Scenario Rubrics, Software/Medical Record Rubric, Appointment Scheduling Rubric, Admitting/Discharge Patient Rubric, Client Communication Rubric, Explaining Value Rubric

Unit 4: Veterinary Ethics and Professional Standards

30 Hours – 20 Classroom, 10 Lab

- Veterinary Laws and Regulations
- Veterinary Client Patient Relationship
- Veterinary Industry Standards
- Veterinary Ethical Considerations
- Animal Welfare & Reporting

HOSA: Chapter Meeting and Content Review, PCACC Community Service

Work-Based Learning: Simulated Lab Experience

ADE Standard: 4.4, 4.5, 4.2, 4.7, 4.8, 4.9

Priority Assessments: Quizzes, End of Unit Assessment, Simulated Ethical Dilemma Scenarios Evaluation, Animal Welfare Scenarios Evaluation, Veterinary Law Scenarios Evaluation

Unit 5: Diagnostic Laboratory Procedures

80 Hours – 30 Classroom, 50 Lab

- Urine Collection Methods & Analysis
- Fecal Collection Methods & Analysis
- Blood Collection Supplies
- Identify Types of Blood Tubes
- Staining Techniques for Cytologies Blood Samples; Chemistry / CBC
- Blood Collection/Restraint and Tubes
- Blood Samples PCV, TP & Blood Smear
- Reference vs. Inhouse Laboratory
- External Parasites Identification
- Necropsy Procedures
- Rabies Clinical Signs, Samples & Testing

HOSA: Chapter Meeting and Content Review, PCACC Community Service

Work-Based Learning: Simulated Lab Experience

ADE Standard: 7.10, 10.1-10.13

Priority Assessments: Quizzes, End of Unit Assessment, Urine Collection/Analysis Rubric, Fecal Collection/Analysis Rubric, Blood Smear Rubric, PCV/TP Rubric, Glucose Spot Test Rubric, Ear Cytology Rubric, Blood Supply Collection Rubric, External Parasite Identification Rubric, Rabies Case Scenario Evaluation

Semester 4 – 180 Hours

Unit 6: Pharmacy & Pharmacology

40 Hours – 15 Classroom, 25 Lab

- Drug Classifications
- Differentiate OTC & Rx Medications
- Recognize DEA Standards (Controlled vs. Non-Controlled)
- Legal Issues Involving Drugs
- Prescription Label Requirements
- Reconstitute Vaccinations and/or Medications
- Identify Routes of Drug/Vaccination Administration
- Prepare Prescriptions and Communicate Instructions
- Inventory Control & Stocking

HOSA: Chapter Meeting and Content Review, PCACC Community Service

Work-Based Learning: Simulated Lab Experience

ADE Standard: 5.2, 5.3, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8

Priority Assessments: Quizzes, End of Unit Assessment, Drug Classification Scenarios Evaluation, Prescription Label Rubric, Routes of Administration Rubric, Reconstitute Vaccine/Medication Rubric, DEA Controlled vs. Non-Controlled Scenario Evaluation, Rx Communication and Filling Medication Rubric

Unit 7: Diagnostic Radiology & Ultrasound

20 Hours – 10 Classroom, 10 Lab

- Radiation Safety & Protection
- Differentiate Manual, Automatic & Digital Radiography
- Ultrasound Imaging & Prep
- Radiography Patient Positioning & Prep
- Utilize Radiology Software, Recognize Signage & Maintain Log
- Demonstrate Care & Identify Components of Radiology Equipment

HOSA: Chapter Meeting and Content Review, PCACC Community Service

Work-Based Learning: Simulated Lab Experience

ADE Standard: 5.15, 12.1-12.6

Priority Assessments: Quizzes, End of Unit Assessment, Radiology Patient Positioning Rubric, Patient Ultrasound Prep Rubric, PPE Rubric

Unit 8: Advanced Patient Care

40 Hours – 10 Classroom, 30 Lab

- Routine Recordkeeping of Hospitalized Patients
- Advanced Patient Care & Monitoring
- Advanced Bandaging Techniques
- Follow Prescription/Dietary Orders
- Prepare Supplies for IV Fluid Therapy/Hospitalization
- Maintain & Identify Medical Equipment
- Explain Euthanasia Process & Disposal

HOSA: Chapter Meeting and Content Review, PCACC

Community Service

Work-Based Learning: Simulated Lab Experience

ADE Standard: 8.6-10, 8.11-13, 8.17-18

Priority Assessments: Quizzes, End of Unit Assessment, Hospitalized Case Scenario Evaluation, IV Fluid Catheter/Set Up Rubric, Bandaging Rubric, Hospital Progress Report Rubric, Euthanasia Process Scenario Evaluation, Medication Administration Rubrics

Unit 9: Surgical Preparation and Assisting

50 Hours – 15 Classroom, 35 Lab

- Assist in Surgical Preparation & PPE
- Sterilization Procedures & Techniques
- Surgical Pack Preparation
- Autoclave Operation/Maintenance
- Identify Surgical Instruments
- Suture Materials/Surgical Supplies
- Patient Prep, Positioning, & Recovery
- Patient Monitoring & Recovery
- Post-Surgical Sanitation
- Maintain Surgical & Anesthesia Logs
- Facility & Equipment Maintenance

HOSA: Chapter Meeting and Content Review, PCACC

Community Service

Work-Based Learning: Simulated Lab Experience

ADE Standard: 9.1-13

Priority Assessments: Quizzes, End of Unit Assessment, Donning/Doffing PPE Rubric, Instrument Sanitation Rubric, Surgical Pack Wrapping – Gowns, Instruments, Towels Rubrics, Surgical Instrument Identification Lab, Patient Monitoring and Recovery Rubric, Patient Positioning Rubric, Patient Monitoring/Recovery Rubric

Unit 10: NAVTA Skills Review and ADE Review

30 hours – 15 Classroom, 15 Lab

- Office Functions & Recordkeeping Skills
- Effective Communication/Relations
- Legal, Ethical & Professional Practices

- Sanitation & Safety Measure
- Pharmacy & Pharmacology
- Animal Behavior and Restraint Techniques
- Perform Patient Care
- Surgical Preparation & Procedures
- Laboratory Procedures
- Body Systems and Anatomy
- Imaging Techniques

HOSA: Chapter Meeting and Content Review

Work-Based Learning: Simulated Lab Experience

ADE Standard: 1.1-10, 2.1-9, 3.1-7, 4.1-4.9, 5.1-13, 6.1-8, 7.1-10, 8.1-8.18, 9.1-13, 10.1-13, 11.1-11, 12.1-6

Priority Assessments: NAVTA and ADE Pr