



VETERINARY TECHNOLOGY

Associate in Applied Science Degree

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Veterinary technicians are essential members of the veterinary health care team. A Registered Veterinary Technician (RVT) is a licensed professional, providing nursing care in many fields involving animals. These include veterinary practice, biomedical research, herd health management, zoos, education, and government service.

Under the supervision of a licensed veterinarian, RVT's may perform a diversity of skills to include: intensive nursing care, clinical laboratory procedures, radiology, anesthesiology, dental care, surgical assistance and client communication. A graduate will have an in-depth understanding of the fundamentals of animal husbandry, behavior, and nursing care for a variety of species.

Prospective students must formally apply to the TCC Veterinary Technology Program. For program information and application packet, contact the Veterinary Technology Program, TCC West Campus, (918) 595-8212, vettech@tulsacc.edu

Admission to the Program

Submit your online application by April 30th to the Veterinary Technology website: <https://www.tulsacc.edu/programs-and-courses/academic-programs/veterinary-technology-aas>. We are unable to accept late applications.

Application Procedure

Submit the following:

- TCC Application (online)
- Request an application packet from: vettech@tulsacc.edu
- Veterinary Technology Program Application (online) including:
 - Official transcripts – High School or equivalent, and all colleges, ACT / SAT scores, or completion of assessment by TCC Academic Advising. Submit official transcripts to: Records & Student Completion Services, Tulsa Community College, 909 S. Boston Ave, Tulsa, OK 74119. Submit electronic transcripts to: records@tulsacc.edu.
 - Shadowing must be completed within 6 months prior to Program application or at Program Director's discretion. Contact the Veterinary Technology Program for specific requirements.

Admission to TCC does not guarantee acceptance into the Veterinary Technology Program. Eligible applicants will be notified and an interview scheduled. All interviewed applicants will receive notification by mail regarding their selection status.

Criminal Background Check and Drug Screening Requirements

An extensive criminal background check, including, but not limited to, a seven-year county of residence and nationwide criminal history check, national sexual predator screening, Social Security check, and Medicare/Medicaid fraud screening is required by all clinical affiliates. All School of Health Science students participating in clinicals are required to complete these background checks and a drug screening test by the Health Sciences deadline and prior to the first clinical rotation. Any positive findings may be subject to review by the clinical affiliates and could prevent the student from completing clinical requirements, and graduation.

Medical marijuana is not permitted. Refer to the School of Health Sciences policy in the TCC Student handbook <https://www.tulsacc.edu/student-resources/student-handbook>. Prospective students may contact the Dean, School of Health Sciences (918-595-7002) for more information.



Estimated Program Cost

The following is an itemized estimate for the cost of the Associates of Applied Science Degree.

TUITION AND FEES ARE SUBJECT TO CHANGE.

TCC Application (one time fee)	20.00
Tuition & Student Fees:	
OK Resident @ 142.00 / hr x 70 hrs	9,940.00
(Non-Resident @ 367.00 / hr x 70 hrs)	(25,690.00)
Laboratory Fees	400.00
Uniforms and Supplies	300.00
Books	2,500.00
Malpractice Insurance @ 13.50/year	27.00 ^a
Medical Insurance @ 45.00/year	90.00 ^a
Medical Tests and Vaccinations	1,000.00 ^a
Background and Screening Fees	100.00
Registration Exam Fees (VTNE)	315.00
Oklahoma Registration Fee & Exam	30.00 ^a
Total Estimate for:	
OK Resident	\$14,702.00
(Non-Resident)	(\$30,452.00)

^a Fee subject to change

OSBI Background Review

All applicants for licensure in the State of Oklahoma must undergo an OSBI (Oklahoma State Bureau of Investigation) background review during application for Examination and Licensure. If the prospective student desires to discuss this, they may contact the Oklahoma State Board of Veterinary Medical Examiners (OSBVME).

General Course Requirements

These General Education courses are required for the AAS degree. Prerequisite courses are required for eligibility to apply to the Program. Remaining General Education courses are scheduled throughout the Program semesters.

Prerequisite Courses (must be completed prior to admission to the Program):

BIOL 1224 ^{**+} Introduction to Biology for Majors or	
BIOL 1604 ^{**+} Zoology	4
ENGL 1113 Freshman Composition	3
General Education Courses (to be completed prior to graduation as scheduled).	
MATH 1473 ^{*A} or course of equal or higher level	3
CHEM 1114 ^{*oA}	4
Principles of Chemistry or course of equal or higher level	
ENGL 1213 Freshman Composition II or	
ENGL 2333 ⁺ Technical/Professional Writing	3
HIST 1483 or 1493 American History	3
POLS 1113 American Government (or comparable course)	3

23 Hrs.

^A must be completed before 3rd semester

^{*} Must pass with a grade of "C" or better.

^o Biology & Chemistry courses must be completed within 12 years of application date.

⁺ Course is recommended.

Two Year Full-time Plan (Traditional Plan)

Criteria

- Successful completion of BIOL and ENGL prerequisites
- Successful completion of Shadowing requirement

Eligible students have developed adequate study habits and have a foundation for college-level and science-based courses. Students in this plan should have the academic skills, and sufficient time and resources necessary to succeed in the challenging VT Program.

Students enrolled in this plan are eligible for membership in the VTSA (Veterinary Technology Student Association), for participation with VTSA activities and for attendance at VT-sponsored continuing education seminars.

Students in this plan will participate in Animal Care Rotations (ACR) every semester. Additionally, they will attend weekly Grand Rounds held Spring and Fall semesters.

General Education Courses		
Course Number	Description	Credit Hours
Prerequisite Courses (must be completed prior to admission to the Program):		
BIOL 1224 ^o BIOL 1604 ^o	Introduction to Biology for Majors, with lab or Zoology	4
ENGL 1113	Freshman Composition	3
General Education Courses (to be completed prior to graduation as scheduled).		
MATH 1473 ^{1A}	or course of equal or higher level	3
CHEM 1114 ^{* oA}	Principles of Chemistry or course of equal or higher level	4
ENGL 1213 ENGL 2333 ⁺	Freshman Composition II or Technical/Professional Writing	3
HIST 1483 or HIST 1493	American History	3
POLS 1113	American Government (or comparable course)	3
		23 Hrs.

Veterinary Technology Program Courses		
Term I (Fall)		
VETT 1124 [*]	Veterinary Anatomy and Physiology	4
VETT 1161 [*]	Clinical Calculations for Veterinary Nurses	1
VETT 1183 [*]	Principles of Small Animal Care	3
VETT 1193 [*]	Principles of Large Animal Care	3
MATH 1473 ^{*A}	or course of equal or higher level	3
Term II (Spring)		
CHEM 1114 ^{* oA}	Principles of Chemistry or course of equal or higher level	4
VETT 1223 [*]	Veterinary Nursing I	3
VETT 1232 [*]	Clinical Pathology I	2
VETT 1242 [*]	Clinical Pathology II	2
VETT 1262 [*]	Veterinary Office and Practice Management	2
VETT 2352 [*]	Radiology, Ultrasound and Diagnostic Imaging	2
Term III (Summer)		
VETT 2126 [*]	Practicum: Animal Clinics and Nursing	6
Term IV (Fall)		
ENGL 1213 ENGL 2333 ⁺	Freshman Composition II or Technical/Professional Writing	3
POLS 1113	American Government (or comparable course)	3
VETT 2222 [*]	Microbiology and Sanitation	2
VETT 2233 [*]	Clinical Pathology III	3
VETT 2313 [*]	Veterinary Nursing II	3
Term V (Spring)		
HIST 1483 or HIST 1493	American History	3
VETT 2253 [*]	Laboratory, Wild and Exotic Animal Nursing	3
VETT 2332 [*]	Veterinary Pharmacology	2
VETT 2364 [*]	Large Animal Nursing	4
VETT 2382 ⁺	Board Review for Veterinary Technicians	2
Total VETT 47 Hrs.		
Total Program 70 Hrs.		

^A must be completed before 3rd semester

^{*} Must pass with a grade of "C" or better.

^o Biology courses must be completed within 12 years of application date.

⁺ Course is recommended.

Three Year Part-time Plan

Criteria

- Successful completion of BIOL and ENGL prerequisites
- Successful completion of Shadowing requirement
- MATH and CHEM must be completed before Term IV
- All General Education courses must be completed by end of last Term

This plan is designed for students unable to devote the time or finances for full-time study. Students matriculate fewer VETT courses per semester, with completion of the degree requirements within 3 years. All laboratories are campus-based, and held at the Veterinary Technology Center. Attendance is mandatory for all field trips.

Students enrolled in this plan are eligible for membership in the VTSA (Veterinary Technology Student Association), for participation with VTSA activities and for attendance at VT-sponsored continuing education seminars.

Students in this plan will participate in Animal Care Rotations (ACRs) every semester. Additionally, they will attend weekly Grand Rounds for 5 of 7 semesters, scheduled at the Program Director's discretion.

General Education Courses		
Course Number	Description	Credit Hours
Prerequisite Courses (must be completed prior to admission to the Program):		
BIOL 1224 ^o BIOL 1604 ^o	Introduction to Biology for Majors, with lab or Zoology	4
CHEM 1114 ^{oB}	Principles of Chemistry	4
ENGL 1113	Freshman Composition I and	3
ENGL 1213 ENGL 2333 ⁺	Freshman Composition II or Technical/Professional Writing	3
HIST 1483 HIST 1493	American History (pre Civil War), or American History (post Civil War)	3
POLS 1113	American Government	3
MATH 1473 ^{oB}	Quantitative Reasoning	3
		23 Hrs.

^{oB}MATH and CHEM must be completed before Term IV. Consult your Academic Advisor for scheduling.

Veterinary Technology Program Courses		
Term I (Fall)		
VETT 1124 [*]	Veterinary Anatomy and Physiology	4
VETT 1161 [*]	Clinical Calculations for Veterinary Nurses	1
VETT 1183 [*]	Principles of Small Animal Care	3
Term II (Spring)		
VETT 1223 [*]	Veterinary Nursing I	3
VETT 1232 [*]	Clinical Pathology I	2
VETT 1242 [*]	Clinical Pathology II	2
Term III (Summer) (no VT courses)		
Term IV (Fall)		
VETT 1193 [*]	Principles of Large Animal Care	3
VETT 2233 [*]	Clinical Pathology III	3
Term V (Spring)		
VETT 1262 [*]	Veterinary Office and Practice Management	2
VETT 2352 [*]	Radiology, Ultrasound and Diagnostic Imaging	2
Term VI (Summer)		
VETT 2126 [*]	Practicum: Animal Clinics and Nursing	6
Term VII (Fall)		
VETT 2222 [*]	Microbiology and Sanitation	2
VETT 2313 [*]	Veterinary Nursing II	3
Term VIII (Spring)		
VETT 2253 [*]	Laboratory, Wild and Exotic Animal Nursing	3
VETT 2232 [*]	Veterinary Pharmacology	2
VETT 2264 [*]	Large Animal Nursing	4
VETT 2382 ⁺	Board Review for Veterinary Technicians	2
Total VETT 47 Hrs.		
Total Program 70 Hrs.		

^{*} Must pass with a grade of "C" or better.

^o MATH and CHEM must be completed before Term IV

^o Biology & Chemistry courses must be completed within 12 years of application date.

⁺ Course is recommended.

Course Descriptions

VETT 1124 - Veterinary Anatomy and Physiology (4 Credits)

A comparative systems approach to mammalian life processes and body structures, emphasizing the use of applied anatomy and physiology. Includes the cat, dog, horse, farm animals and birds. Examination of normal and abnormal structures of selected organs systems histologically and pathologically. Fixed and fresh specimen dissection is performed. Includes veterinary medical terminology. Lecture 2 hours. Laboratory 4 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 1161 - Clinical Calculations for Veterinary Nurses (1 Credit)

Introduction to common calculations needed for veterinary nursing. Use of metric system and conversion of units, apothecary equivalents and vocabulary. Preparation of solutions: strengths, procedures, and computations. Drug administration: calculating and measuring dosages and fluid rates. Lecture 1 hours. Laboratory 0 hours. Prerequisites: Admission to VT Program or Program Director approval.

VETT 1183 - Principles of Small Animal Care (3 Credits)

Introduction to the management, husbandry, and basic veterinary care for small animals, emphasizing the dog and cat. A survey of signs and treatments of common infectious diseases. Principles of nutrition, sanitation, handling and housing procedures. Techniques in restraint, taking of vital signs, administering medications, grooming and sample collection for basic laboratory tests. Each student will rotate sanitation and nursing care for resident Program animals. Lecture 1 hours. Laboratory 4 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 1193 - Principles of Large Animal Care (3 Credits)

Introduction to the management, husbandry, and basic veterinary care for large animal species, including the horse, cow, pig, sheep, and goat. Principles of basic dietary requirements, sanitation, handling and housing of large animals. Techniques in restraint, taking of vital signs, administering medications, grooming and sample collection for basic laboratory tests. Each student will rotate sanitation and nursing care for resident Program animals. Lecture 1 hours. Laboratory 4 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 1223 - Veterinary Nursing I (3 Credits)

Emphasis on small animal anesthesiology, with intensive study and application of a wide range of anesthetics. Includes commonly used injectable, inhalant and analgesic protocols, surgical preparation and assistance, patient monitoring, postoperative procedures, parenteral fluid administration, blood transfusion, and many other nursing techniques. Each student will rotate sanitation and nursing care for resident Program animals. Lecture 1 hours. Laboratory 4 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 1232 - Clinical Pathology I (2 Credits)

Introduction to laboratory procedures emphasizing urinalysis and normal hematology of a variety of animal species; including blood cell counts and blood cell identification. 8-week course. Lecture 1 hours. Laboratory 2 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 1242 - Clinical Pathology II (2 Credits)

Introduction to laboratory procedures emphasizing parasitology. Includes ectoparasites, endoparasites and hemoparasites of a variety of animal species; including fecal analysis techniques. 8-week course. Lecture 1 hours. Laboratory 2 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 1262 - Veterinary Office and Practice Management (2 Credits)

Office management principles and procedures relevant to veterinary medicine. Includes practical interpersonal communication and customer relation skills, professional correspondence, appointment scheduling and financial record keeping. Introduction to and application of veterinary practice management software. Legal and ethical considerations regarding medical records and office organization are introduced. Lecture 2 hours. Prerequisites: Admission to VT Program or Program Director approval.

VETT 2126 - Practicum: Animal Clinics and Nursing (6 Credits)

Development of practical veterinary nursing skills in an approved work site, for a minimum of 316 hours. Active participation through independent in-clinic work, online assignments and in-class presentations. Students will work directly under the supervision of a licensed veterinarian while applying skills acquired from previous academic preparation. The student, sponsor and Program Director will develop a written competency-based learning plan with specific learning objectives. No lecture. Laboratory 24 hours. Prerequisites: Admission to VT Program and Program Director approval.

VETT 2222 - Microbiology and Sanitation (2 Credits)

Introduction to microorganisms; consideration given primarily to the pathogenic microorganisms related to veterinary medicine; including bacteria, viruses, fungi and protozoa. Emphasis will be placed on sanitation, disinfectants, aseptic techniques, sterilization techniques, zoonosis, and related public health concerns. Lecture 1 hours. Laboratory 2 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 2233 - Clinical Pathology III (3 Credits)

Continuation of VETT 1232 & VETT 1242. Laboratory procedures including abnormal hematology, blood chemistry analysis, cytology, specialized blood testing techniques, coagulation, and immunology. Lecture 1 hours. Laboratory 4 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 2253 - Laboratory, Wild, and Exotic Animal Nursing (3 Credits)

Nursing techniques required in the care and treatment of laboratory animals, birds, exotic and wild animals. Restraint and handling, identification, blood collection, medication, anesthesia, and specimen collection. Supervisory skills for laboratory animal research are covered. Each student will rotate sanitation and nursing care for resident Program animals. Lecture 1 hours. Laboratory 4 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 2313 - Veterinary Nursing II (3 Credits)

Continuation of VETT 1223: anesthesia, surgical assisting and other nursing skills. Study of non-infectious disease and conditions of major organ systems including renal, cardiac, respiratory, urogenital, endocrine, GI, dermal and emergency medicine. Application of many common nursing techniques (basic and advanced) including radiology, bandaging, casting, and postoperative procedures. Each student will rotate sanitation and nursing care for resident Program animals. Lecture 1 hours. Laboratory 4 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 2332 - Veterinary Pharmacology (2 Credits)

Basic principles of veterinary drug therapy for a variety of animal species are studied. Coverage of regulations, major drug classes, drug interactions, delivery routes, dosage calculations, dispensary protocols, inventory control and toxicology. Lecture 2 hours. Laboratory none. Prerequisites: Admission to VT Program or Program Director approval.

VETT 2352 - Radiology, Ultrasound, and Diagnostic Imaging (2 Credits)

Intensive study and practice in medical diagnostic imaging techniques. Includes radiographic exposure techniques, image processing, contrast radiography, ultrasonography and other techniques. Lecture 1 hour. Laboratory 4 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 2364 - Large Animal Nursing (4 Credits)

Nursing techniques required to assist the large or mixed animal practice veterinarian. Includes the study of large animals: horse, cow, pig, sheep, goat and other species. Application of restraint, sampling techniques, medication administration, patient care, radiology, anesthesiology, surgical preparation and assisting, and other nursing techniques. Each student will rotate sanitation and nursing care for resident Program animals. Lecture 2 hours. Laboratory 4 hours. Prerequisites: Admission to VT Program or Program Director approval. Includes lab component.

VETT 2382 - Board Review for Veterinary Technicians (2 Credits)

This course is designed to prepare veterinary technology students and graduate technicians for the Veterinary Technician National Examination (VTNE) and the Oklahoma State Veterinary Technician Examination. Lecture 2 credit hours. No laboratory. Prerequisite: NONE.

Essential Functions for Admissions & Progression In the Veterinary Technology Program of Tulsa Community College

These Essential Functions should be used to assist each applicant and student, who is otherwise qualified, in determining whether accommodations or modifications are necessary for classes or clinical experiences. It is the policy of Tulsa Community College to provide reasonable academic accommodations for those with disabilities, including learning disabilities, health impairments, and other disabling conditions.

Note: Those who have physical, mental or emotional limitations must make an appointment with the Accessibility Resources 918-595-7115 at Metro Campus Room MC 331-B, to review their ability to meet these Veterinary Technology Essential Functions.

The assessment for meeting these Essential Functions MUST BE COMPLETED and the appropriate documentation for accommodation received by the Program Director before a reasonable accommodation can be made for persons being admitted or readmitted to TCC's veterinary technology classes and clinical lab sessions.

Candidates for admission and progression in the Veterinary Technology Program must also have the following abilities:

Ability	Standard	Some Examples of Necessary Activities (not all inclusive)
Critical Thinking	Critical thinking and problem solving sufficient for clinical judgement.	Identify cause-effect relationships in clinical situations. Develop nursing care plans. Demonstrate problem solving skills. Adapt to stressful situations.
Interpersonal	Interpersonal abilities sufficient to interact with patients, clients, families & groups from a variety of social, emotional, cultural & intellectual backgrounds.	Establish rapport with patients/clients & colleagues. Recognize appropriate boundaries in relationships with patients/clients & colleagues
Communication	Communication abilities for interaction with others orally & in writing.	Explain treatment procedures, initiate health teaching, document & interpret nursing actions and patient/client responses. Team building skills
Mobility	Physical abilities sufficient to move from room to room, maneuver in small spaces & provide assistance to patients.	Move around in patient & treatment areas. Administer CPR. Provide physical assistance to clients & colleagues to ensure safety within the environment. Ability to prevent or escape injury caused by animals (i.e. biting, kicking, stampede).
Motor Skills	Gross & fine motor abilities sufficient to provide safe, effective nursing care in a timely manner.	Use of instruments, supplies, safety devices and communication equipment in the care of patients. Performance of nursing care, surgical assistance, & laboratory techniques.
Hearing	Auditory ability sufficient to monitor and assess health needs.	Hear auscultatory sounds, monitor alarms, emergency signals, and cries for help. Hear warning sounds from animals and humans of impending danger/injury.
Visual	Visual ability sufficient for observation and assessment necessary in nursing care.	Observe patients for expected and unexpected physical and emotional responses to nursing and medical treatment regimens. Use of diagnostic equipment including a microscope, thermometer, refractometer, etc.
Tactile	Tactile ability sufficient for physical assessment and to perform nursing duties in a timely manner.	Perform palpation functions of physical exam. Administer oral, intramuscular, subcutaneous, & intravenous medications. Insert and remove tubes and perform wound care management. Surgical assistance.
Physical Condition	Physical ability and stamina sufficient to restrain, lift & assist in the care of a variety of animal species. Ability to stand for extended periods of time. Ability to withstand extreme weather conditions. Immune system competence.	Lift a minimum of 50 pounds. Surgical assistance. Daily clinical routine. Year round treatment and care of outdoor animals. Exposure to a wide range of chemical and biological agents.

**For more information email: vettech@tulsacc.edu or call 918.595.8212.
Visit our website: TulsaCC.edu/Vet-Tech**

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