



VETERINARY TECHNOLOGY

Associate in Applied Science Degree

Associate in Applied Science Degree

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 and surgical assistance. 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.

Admission to the Program

Submit completed program application form and required materials by April 30th to Veterinary Technology Program, TCC West Campus, 7505 West 41st Street, Tulsa, OK 74107-8633.

Application Procedure

Submit the following:

- TCC Application (online)
- Veterinary Technology Program Application
- Official transcripts – High School or equivalent, and all colleges (including TCC), ACT / SAT scores, or completion of CPT/Compass assessment (by TCC Academic Advising)
- Shadowing to be completed before application to Program 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 Allied Health Service students participating in clinicals are required to complete these background checks and a drug screening test by the Allied Health Division Office 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. Prospective students may contact the Dean of Health Sciences (918-595-8920) 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 @ 138.00 / hr x 77 hrs.....	10,626.00
(Non-Resident @ 326.42 / hr x 77 hrs).....	(25,134.34)
Laboratory Fees.....	400.00
Uniforms and Supplies.....	300.00
Books.....	2500.00
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	130.00 ^a

Total Estimate for:

OK Resident.....	\$15,488.00
(Non-Resident).....	(\$29,996.34)

^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

Must be completed prior to admission to the Program:

BIOL 1224 * ^o + Introduction to Biology for Majors or	
BIOL 1604 * ^o + Zoology	4
CHEM 1114 * Principles of Chemistry or 1315 General Chemistry I 4/5	
ENGL 1113 Freshman Composition I.....	3
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
MATH 1473, 1513, * or course of equal or higher level	3

23-24 Hrs.

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

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

+ Course is recommended.



Curriculum Pathways

Selection of a specific curriculum pathway is at the Program Director's discretion, based on criteria and personal interview.

Two Year Full-time Plan (Traditional Plan)

Criteria

- Successful completion of General Education Requirements and Shadowing prerequisite

This plan is for students who have completed all the General Education courses. 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
BIOL 1224 * ^o	Introduction to Biology for Majors, with lab or	
BIOL 1604 * ^o	Zoology	4
CHEM 1114 *	Principles of Chemistry, or	
CHEM 1315 *	General Chemistry I.....	4/5
ENGL 1113	Freshman Composition I and.....	3
ENGL 1213	Freshman Composition II or	
ENGL 2333 +	Technical/Professional Writing.....	3
HIST 1483	American History (pre Civil War), or	
HIST 1493	American History (post Civil War).....	3
POLS 1113	American Government.....	3
MATH 1513 *	Precalculus I, or	
MATH 1473 *	Quantitative Reasoning.....	3
		23-24 Hrs.

Veterinary Technology Program Courses

Summer (Pre-acceptance)

VETT 1132 **	Introduction to Veterinary Technology	2
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Term I (Fall)

VETT 1125 *	Veterinary Anatomy and Physiology.....	5
VETT 1161 *	Clinical Calculations for VT.....	1
VETT 1183 *	Principles of Small Animal Care.....	3
VETT 1193 *	Principles of Large Animal Care.....	3

Term II (Spring)

VETT 1223 *	Veterinary Hospital Technology I.....	3
VETT 1232 *	Clinical Pathology I.....	2
VETT 1242 *	Clinical Pathology II.....	2
VETT 1263 *	Veterinary Office and Computer Skills.....	3

Term III (Summer)

VETT 2125 *	Practicum: Animal Clinics and Nursing.....	5
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Term IV (Fall)

VETT 2224 *	Microbiology and Sanitation.....	4
VETT 2234 *	Clinical Pathology III.....	4
VETT 2313 *	Veterinary Hospital Technology II.....	3

Term V (Spring)

VETT 2254 *	Laboratory, Wild and Exotic Animal Technology.....	4
VETT 2333 *	Veterinary Pharmacology.....	3
VETT 2352 *	Radiology, Ultrasound and Diagnostic Imaging.....	2
VETT 2364 *	Large Animal Technology.....	4
		53 Hrs
		76-77 Hrs.

Summer (Optional)

VETT 2382+	Board Review for Veterinary Technicians.....	2
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* Must pass with a grade of "C" or better.

** VETT 1132 taught all 3 semesters, Summer, Fall and Spring.

Must be completed either pre-acceptance or during the first Term.

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

+ Course is recommended.

Three Year Part-time Plan

Criteria

- Successful completion of Biology and Math prerequisites
- Successful completion ≥ 80% General Education Requirements (all completed by end of Term III)
- Successful completion of Shadowing prerequisite

This plan is designed for students unable to devote the time or finances for full-time study. Students with 1-2 remaining General Education prerequisites should consider this plan. Students matriculate fewer VT 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
BIOL 1224 * ^o	Introduction to Biology for Majors, with lab or	
BIOL 1604 * ^o +	Zoology	4
CHEM 1114 *	Principles of Chemistry, or	
CHEM 1315 *	General Chemistry I.....	4/5
ENGL 1113	Freshman Composition I and.....	3
ENGL 1213	Freshman Composition II or	
ENGL 2333 +	Technical/Professional Writing.....	3
HIST 1483	American History (pre Civil War), or	
HIST 1493	American History (post Civil War).....	3
POLS 1113	American Government.....	3
MATH 1513 *	Precalculus I, or	
MATH 1473 *	Quantitative Reasoning.....	3
		23-24 Hrs.

Veterinary Technology Program Courses

Summer (Pre-acceptance)

VETT 1132 **	Introduction to Veterinary Technology	2
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Term I (Fall)

VETT 1125 *	Veterinary Anatomy and Physiology.....	5
VETT 1161 *	Clinical Calculations for VT.....	1
VETT 1183 *	Principles of Small Animal Care.....	3

Term II (Spring)

VETT 1223 *	Veterinary Hospital Technology 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 2234 *	Clinical Pathology III.....	4

Term V (Spring)

VETT 1263 *	Veterinary Office and Computer Skills.....	3
VETT 2352 *	Radiology, Ultrasound and Diagnostic Imaging.....	2

Term VI (Summer)

VETT 2125 *	Practicum: Animal Clinics and Nursing.....	5
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Term VII (Fall)

VETT 2224 *	Microbiology and Sanitation.....	4
VETT 2313 *	Veterinary Hospital Technology II.....	3

Term VIII (Spring)

VETT 2254 *	Laboratory, Wild and Exotic Animal Technology.....	4
VETT 2333 *	Veterinary Pharmacology.....	3
VETT 2364 *	Large Animal Technology.....	4
		53 Hrs
		76-77 Hrs.

Summer (Optional)

VETT 2382 +	Board Review for Veterinary Technicians.....	2
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* Must pass with a grade of "C" or better.

** VETT 1132 taught all 3 semesters, Summer, Fall and Spring.

Must be completed either pre-acceptance or during the first Term.

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

+ Course is recommended.

Course Descriptions

VETT 1125 - Veterinary Anatomy and Physiology (5 Credits)

A comparative, systems approach to the study of mammalian life processes and the related body structures. Includes gross and microscopic study of selected organ systems from the cat, dog, horse and cow. Dissections are performed on fixed and fresh specimens. Examination of normal and abnormal structures histologically and pathologically. Emphasis will be placed on the use of applied anatomy and physiology. Includes a systematic study of word parts and their combinations to form terms used in veterinary medical practice. Lecture 4 hours. Laboratory 3 hours. Prerequisite: Admission to VT program or Program Director approval.

VETT 1132 - Introduction to Veterinary Technology (2 Credits)

An introduction to the profession and practice of veterinary technology. The role of the technician within a veterinary health care team, professional opportunities, organizations and continuing education for graduate technicians. Economics, ethics, regulatory organizations, and laws governing technicians. Humane care practices, sanitation and prevention of zoonosis, animal behavior, pet loss-grief issues, and client relations. Lecture 2 hours. No laboratory. Prerequisite: NONE.

VETT 1161 - Clinical Calculations for VT (1 Credit)

An 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 hour. No Laboratory. Prerequisite: Admission to VT Program or Program Director approval.

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

An introduction to management, husbandry, and basic veterinary care for small animal species, emphasizing the dog and cat. A survey of signs and treatments of commonly encountered diseases. Principles of basic dietary requirements, sanitation, handling and housing procedures. Techniques in restraint, taking of vital signs, administering medications, grooming and sample collection for basic laboratory tests. Additionally, each student will rotate sanitation and nursing care for resident Program animals. Lecture 2 hours. Laboratory 3 hours. Prerequisite: Admission to VT program or Program Director approval.

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

An 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. Additionally, each student will rotate sanitation and nursing care for resident Program animals. Lecture 2 hours. Laboratory 3 hours. Prerequisites: Admission to the VT Program or Program Director approval.

VETT 1223 - Veterinary Hospital Technology I (3 Credits)

Small animal anesthesiology is the emphasis of this course with intensive study and application of a wide range of anesthetics; including commonly used injectable and inhalant protocols. Surgical preparation and assistance, patient monitoring, postoperative procedures, parenteral fluid administration, blood transfusion, and many other nursing techniques will be practiced. Additionally each student will rotate sanitation and nursing care for resident Program animals. Lecture 2 hour. Laboratory 4 hours. Prerequisites: All prior VETT courses with a grade of "C" or better.

VETT 1232 - Clinical Pathology I (2 Credits)

Introduction to laboratory procedures which will include: urinalysis and normal hematology of a variety of animal species; including blood cell counts and blood cell identification. Lecture 3 hours. Laboratory 3 hours. Prerequisites: All prior VETT courses with a grade "C" or better.

VETT 1242 - Clinical Pathology II (2 Credits)

Continuation of VETT 1232. Introduction to laboratory procedures which will include: parasitology of a variety of animal species to include ectoparasites, endoparasites and hemoparasites; including fecal analysis techniques. Lecture 3 hours. Laboratory 3 hours. Prerequisites: VETT 1232 and all prior VETT courses with a grade of "C" or better.

VETT 1263 - Veterinary Office and Computer Skills (3 Credits)

Office management principles and procedures relevant to veterinary medicine are surveyed. Includes practical interpersonal communication and customer relation skills, professional correspondence, appointment scheduling, financial record keeping, and the orientation to and application of veterinary practice management software. Legal and ethical considerations regarding medical records and office organization are introduced. Hands-on microcomputer training will be provided. Lecture 2 hours. Laboratory 2 hours. Prerequisite: All prior VETT courses with a grade of "C" or better.

VETT 2125 - Practicum: Animal Clinics and Nursing (5 Credits)

Practical veterinary technical skills development in an approved work site. Students must work a total of 316 hours 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: Permission of Program Director. Prerequisite: All prior VETT courses with grade of "C" or better and permission of Program Director.

VETT 2224 - Microbiology and Sanitation (4 Credits)

An introduction to microorganisms. Consideration will be given primarily to the pathogenic microorganisms related to veterinary medicine; including bacteria, viruses, fungi, and protozoa. Emphasis will be placed on sanitation, disinfectants, aseptic technique, sterilization techniques, zoonosis, and related public health concerns. Lecture 3 hours. Laboratory 3 hours. Prerequisites: All prior VETT courses with a grade of "C" or better.

VETT 2234 - Clinical Pathology III (4 Credits)

Continuation of VT 1234 laboratory procedures; which will include blood chemistry analysis, cytology, specialized blood testing techniques, as well as a review of parasitology, urinalysis, and hematology. Lecture 3 hours. Laboratory 3 hours. Prerequisites: All prior VETT courses with a grade of "C" or better.

VETT 2254 - Laboratory, Wild, and Exotic Animal Technology (4 Credits)

Techniques required in assisting the veterinarian 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. Additionally, each student will rotate sanitation and nursing care for resident Program animals. Lecture 3 hours. Laboratory 3 hours. Prerequisites: All prior VETT courses with a grade of "C" or better.

VETT 2313 - Veterinary Hospital Technology II (3 Credits)

Administration of anesthetics, surgical assisting, and continued practice of techniques in radiology, bandaging, casting, intravenous and urinary catheterization, surgical preparations, postoperative procedures, as well as application of many other common nursing techniques will be practiced. Additionally, each student will rotate sanitation and nursing care for resident Program animals. Lecture 2 hour. Laboratory 4 hours. Prerequisites: All prior VETT courses with a grade of "C" or better.

VETT 2333 - Veterinary Pharmacology (3 Credits)

Basic principles of drug therapy in the veterinary practice are studied. Coverage of the major classes of drugs, drug interactions, delivery routes, dosage calculation, dispensary protocols and inventory control. Lecture 3 hours. No laboratory. Prerequisites: All prior VETT courses with a grade of "C" or better.

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

Intensive study and practice in medical diagnostic imaging techniques. Includes radiographic exposure techniques, film processing, contrast radiography, and ultrasonography. Lecture 1 hour. Laboratory 3 hours. Prerequisites: All prior VETT courses with a grade of "C" or better.

VETT 2364 - Large Animal Technology (4 Credits)

Techniques required in assisting the large animal or mixed practice veterinarian. Studies and applications will include the use of the horse, cow, pig, sheep, and goat. Practice of restraint, sampling techniques, anesthesiology, radiology, medication administration, and other nursing techniques. Additionally, each student will rotate sanitation and nursing care for resident Program animals. Lecture 2 hours. Laboratory 6 hours. Prerequisites: All prior VETT courses with a grade of "C" or better.

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 Education Access Center (EAC) 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 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 such as 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 visit TulsaCC.edu/Vet-Tech
or call **918.595.8212**

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