



CAREER PATHWAYS FOR SUCCESS

A DUAL ENROLLMENT CAREER PATHWAY FOR VETERINARY TECHNOLOGY

12th Grade:

FALL	SPRING
• ENG 101	• ENG 102*
• BIO 101	• MAT 120

High School Graduation
WITH 13 HOURS COLLEGE CREDIT
AND COMPLETION OF
PRE-VETERINARY TECHNOLOGY
CURRICULUM

*Optional, but needed to complete some 4-year B.S. degrees.

SUMMER
• VET 113

SUMMER SPRING FALL

VET 201
VET 250
VET 270
PSY 201
SPC 205

FALL

• VET 170

• BIO 225
• VET 160
• VET 152
• VET 142
• VET 140

• VET 150
• VET 116
• VET 104
• VET 101

EXIT NOW

ANNUAL
Median
\$32,022

VETERINARY TECHNOLOGY ASSOCIATE DEGREE

VET 215
VET 260
VET 290
Humanities Requirement

SPRING

• Transfer Opportunities with 4-year universities

Bachelor of Science Degree
Murray State University (KY)
Lincoln Memorial University (TN)

Graduate from High School with 13 Hours of College Credit

- Take your dual enrollment courses at one of TCTC's campuses alongside college students or at a college site in your school district.
- Get a head start on your Veterinary Technology program by completing Veterinary Technology prerequisites while still in high school.
- Complete VET 113 in summer term and be ready to begin Veterinary Technology courses in the fall .
- Upon completion of the Veterinary Technology program, become a Licensed Veterinary Technician (LVT) after passing the national and state licensing exams.
- As an LVT, qualify for employment with veterinary clinics, major teaching facilities, zoos, wildlife preserves, animal research and diagnostic labs, pharmaceutical companies, or any other animal related facility.
- After earning your associate degree at Tri-County, continue studies towards a 4-year degree at Murray State University (Kentucky) or at Lincoln Memorial University (Tennessee).
- The number of Veterinary Technologists/Technicians employed in this region continues to increase due to the rapid demand in animal health care.

TRI-COUNTY TECHNICAL COLLEGE CONTACT:

Marla Cobb
mcobb9@tctc.edu

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COURSE DESCRIPTIONS

Veterinary Technology is a career dedicated to the health and wellbeing of animals. Licensed veterinary technicians provide professional and technical support to veterinarians, biologists, researchers, and industry, by providing patient care, including anesthesia and surgical support, diagnostic imaging, and laboratory procedures.

BIO 101 - Biological Science I

Class Hours: 3 Lab Hours: 3 Credit Hours: 4

This course is a study of the scientific method, basic biochemistry, cell structure and function, cell physiology, cell reproduction and development, Mendelian genetics, population genetics, natural selection, evolution, and ecology. Laboratory requirement supplements lectures.

Prerequisites: Satisfactory placement test scores for ENG 101 or completion of ENG 101, ENG 103, or ENG 100 and RDG 100. Satisfactory placement test scores for MAT 101 or completion of MAT 101 or MAT 032. Completion of BIO 105 and CHM 105 replaces MAT and ENG prerequisites. All prerequisite courses require a grade of C or higher.

Note: Credit may not be earned for both BIO 101 and BIO 105 or BIO 113.

BIO 225 - Microbiology

Class Hours: 3 Lab Hours: 3 Credit Hours: 4

This is a detailed study of microbiology as it relates to infection and the disease processes of the body. Topics include immunity, epidemiology, medically important microorganisms, and diagnostic procedures for identification. Laboratory requirement supplements lectures.

Prerequisites: BIO 101 with a grade of C or above.

ENG 101 - English Composition I

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This is a (college transfer) course in which the following topics are presented: a study of composition in conjunction with appropriate literary selections, with frequent theme assignments to reinforce effective writing. A review of standard usage and the basic techniques of research are also presented.

Prerequisites: Satisfactory Writing placement score or a grade of C or higher in ENG 100 or in ENG 155 and satisfactory Reading placement score or a grade of C or higher in RDG 100.

MAT 120 - Probability and Statistics

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course includes the following topics: introductory probability and statistics, including organization of data; sample space concepts; random variables; counting problems; binomial and normal distributions; central limit theorem; confidence intervals and test hypothesis for large and small samples; types I and II errors; linear regression and correlation.

Prerequisites: Satisfactory math placement score; or MAT 102 with a grade of C or above, or MAT 101 with a grade of A. And a Compass Reading score of 83 or RDG 100 with a grade of C or better or ENG 101 with a grade of C or better.

PSY 201 - General Psychology

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course includes the following topics and concepts in the science of behavior: scientific method, biological bases for behavior, perception, motivation, learning memory, development, personality, abnormal behavior, therapeutic techniques, and social psychology.

Prerequisites: Reading and writing placement scores for ENG 101 or completion of ENG 100, ENG 101, or ENG 155 with a grade of C or higher. BIO 101 strongly recommended.

SPC 205 - Public Speaking

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course is an introduction to principles of public speaking with application of speaking skills.

Prerequisites: A grade of C or higher in ENG 101 or in ENG 103 or in ENG 155 or in ENG 156.

VET 101 - Animal Breeds and Husbandry

Class Hours: 2 Lab Hours: 3 Credit Hours: 3

This course is a study of the various species and breeds of domestic animals commonly encountered in veterinary medicine. Emphasis is placed on the recognition of each breed as well as important terminology, physiological data, and behavior of each species of animal.

VET 104 - Veterinary Anatomy and Physiology

Class Hours: 2 Lab Hours: 3 Credit Hours: 3

This course provides a general survey of the functional anatomy and physiology of the domestic animals commonly encountered in veterinary medicine. Dissection of representative cadavers is performed in the laboratory.

Prerequisites: VET 103.

VET 113 - Introduction to Veterinary Technology

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course introduces veterinary medical terminology, anatomy, physiology and related areas of veterinary medicine. It will also introduce the student to job opportunities and the characteristics it takes to be successful in this field.

Prerequisites: Satisfactory placement test scores for ENG 101 or completion of ENG 101 or ENG 100 and RDG 100.

VET 116 - Radiology and Parasitology

Class Hours: 1 Lab Hours: 6 Credit Hours: 3

This course is a study of the radiologic techniques for all domestic animals in veterinary medicine, including taking, developing, and assessing for technical errors of large and small animal radiographs. This course also includes a survey and laboratory study of domestic animal parasitology.

VET 140 - Veterinary Pharmacology

Class Hours: 2 Lab Hours: 0 Credit Hours: 2

This course is the study of the principles of pharmacology and the pharmaceutical products used in veterinary medicine.

Prerequisites: VET 150.

VET 142 - Veterinary Anesthesia

Class Hours: 2 Lab Hours: 3 Credit Hours: 3

This course is the study of the principles and practical uses of anesthesia in veterinary medicine.

Prerequisites: VET 150.

VET 150 - Clinical Techniques I

Class Hours: 2 Lab Hours: 3 Credit Hours: 3

This course includes a survey of the technical skills required by the veterinary technician in dealing with all domestic animals. The course includes techniques in restraint, handling, administration of medications, and collection of bodily specimens.

Prerequisites: VET 105.

VET 152 - Clinical Pathology

Class Hours: 2 Lab Hours: 6 Credit Hours: 4

This course provides a study of veterinary hematology, urology, and clinical chemistry followed by application of standard laboratory procedures and regulatory testing in each of these disciplines.

Prerequisites: VET 150.

VET 160 - Clinical Techniques II

Class Hours: 2 Lab Hours: 3 Credit Hours: 3

This course provides a survey of technical skills required by the veterinary technician with emphasis on radiographic and anesthetic procedures.

Prerequisites: VET 150.

VET 170 - Veterinary Technician Externship

Class Hours: 0 Lab Hours: 24 Credit Hours: 6

This course provides clinical training in the veterinary field under the direct supervision of a licensed veterinarian in a veterinary facility.

Prerequisites: Completion of first-year veterinary technology courses.

VET 201 - Diseases and Zoonosis

Class Hours: 4 Lab Hours: 0 Credit Hours: 4

This course provides a study of domestic animal diseases, including their causes, symptoms, prevention, treatment, and public health significance.

Prerequisites: VET 170.

VET 215 - Laboratory Animal Medicine

Class Hours: 1 Lab Hours: 3 Credit Hours: 2

This course provides a study of the animals and facilities used in research procedures in medicine. The course includes equipment, aseptic techniques, vivarium management, husbandry, and disease prevention in laboratory animals.

Prerequisites: VET 160.

VET 250 - Clinical Techniques III

Class Hours: 1 Lab Hours: 6 Credit Hours: 3

This course includes a survey of technical skills required by the veterinary technician with emphasis on laboratory techniques.

Prerequisites: VET 170.

VET 260 - Clinical Techniques IV

Class Hours: 1 Lab Hours: 6 Credit Hours: 3

This course will survey technical skills required by veterinary technicians with emphasis on medical and surgical emergencies.

Prerequisites: VET 250.

VET 270 - Advanced Medical Care

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course provides a study of the technician's role in emergency medical and surgical procedures. This course includes a survey of diagnostic procedures.

Prerequisites: VET 170.

VET 290 - Senior Integrated Learning

Class Hours: 4 Lab Hours: 0 Credit Hours: 4

This course will integrate foundational knowledge from learned information in preparation for taking the Veterinary Technician National Exam and a career in veterinary technology.

Prerequisites: VET 250.