

**VET TECH INSTITUTE OF HOUSTON  
COMPENDIUM OF CATALOG COURSE DESCRIPTIONS  
ACADEMIC YEARS 2006-07 TO 2018-19**

**Definition of Academic Credit:** A clock hour is equal to a minimum of 50 minutes of instruction. Credit for academic and financial aid purposes is measured in semester credit hours. A semester credit hour is equivalent to a minimum of 16 clock hours of lecture, 32 clock hours of laboratory where classroom theory is applied and explored or manipulative skills are enhanced, 48 clock hours of externship/practicum, or a combination of these three.

**BIOL 1308 BIOLOGY**

(Lecture 48; Lab 0; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 3)

The student will learn the fundamental principles of living organisms including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of reproduction, genetics, ecology, and the scientific method are included. This course satisfies the general education requirement for the degree program.

**ENGL 1301 ENGLISH COMPOSITION I**

(Lecture 48; Lab 0; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 3)

The student will learn the principles and techniques of written, expository, and persuasive composition; to analyze literary, expository, and persuasive texts; and critical thinking. This course satisfies the general education requirement for the degree program.

**MATH 1332 CONTEMPORARY MATHEMATICS**

(Lecture 48; Lab 0; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 3)

The student will learn the introductory principles of sets, logic, number systems, number theory, relations, functions, probability, and statistics. Appropriate applications are included. This course satisfies the general education requirement for the degree program.

**PSYC 2301 GENERAL PSYCHOLOGY**

(Lecture 48; Lab 0; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 3)

The student will learn about major topics in psychology. The study of behavior and the factors that determine and affect behavior are introduced. This course satisfies the general education requirement for the degree program.

**SPCH 1311 INTRODUCTION TO SPEECH COMMUNICATION**

(Lecture 48; Lab 0; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 3)

The student will learn the theories and practice of communication in interpersonal, small group, and public speech. This course satisfies the general education requirement for the degree program.

**VTHT 1191 SPECIAL TOPICS: VTNE PREPARATION**

(Lecture 16; Lab 48; Ext 0; Total Clock Hours: 64/Semester Credit Hours: 1)

The student will participate in a comprehensive review of both theory and practical application. This course is designed to prepare the student to sit for the Veterinary Technician National

Examination. Discussions will be followed by exams formatted and timed using parameters similar to the actual test.

### **VTHT 1200 ANIMAL BEHAVIOR**

(Lecture 32; Lab 0; Ext 0; Total Clock Hours: 32/Semester Credit Hours: 2)

The student will learn normal/abnormal animal behavior, factors associated with those behaviors, and management techniques. The student will be able to identify normal/abnormal animal behavior and temperament, including environmental and physiological factors; identify appropriate/inappropriate animal trainer behavior; and describe acceptable/unacceptable behavior modification techniques.

### **VTHT 1202 VETERINARY LABORATORY PROCEDURES**

(Lecture 16; Lab 48; Ext 0; Total Clock Hours: 64/Semester Credit Hours: 2)

The student will learn basic veterinary laboratory procedures, methodology, and proper use of laboratory equipment. The student will also be able to recognize reportable conditions; prepare common diagnostic tests in the areas of parasitology, hematology, urinalysis, and microbiology; and utilize appropriate safety and sanitation techniques.

### **VTHT 1205 VETERINARY MEDICAL TERMINOLOGY**

(Lecture 32; Lab 0; Ext 0; Total Clock Hours: 32/Semester Credit Hours: 2)

The student will learn word parts, directional terminology, and analysis of common veterinary terms. The student will be able to define, apply, and analyze common veterinary terms.

### **VTHT 1209 VETERINARY NUTRITION**

(Lecture 32; Lab 16; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 2)

The student will learn the fundamentals of energy and non-energy producing nutrients and their sources and functions. The student will also learn the integration of concepts including digestion, absorption, and metabolism with application to normal, therapeutic, reproduction, and whelping animal needs.

### **VTHT 1217 VETERINARY OFFICE MANAGEMENT**

(Lecture 32; Lab 16; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 2)

The student will learn the aspects associated with management of the veterinary practice. Emphasis is placed on client relations, record keeping, inventory, employment skills, and computer skills in the veterinary environment. The student will be able to demonstrate effective client relation, communication, and computer skills; apply basic principles such as proper maintenance of medical records; and display employment skills including interviewing, resume writing, and proper dress. The student will also be able to discuss euthanasia and its process in the veterinary hospital.

### **VTHT 1291 SPECIAL TOPICS: VTNE PREPARATION**

(Lecture 16; Lab 48; Ext 0; Total Clock Hours: 64/Semester Credit Hours: 2)

The student will participate in a comprehensive review of both theory and practical application. This course is designed to prepare the student to sit for the Veterinary Technician National Examination. Discussions will be followed by exams formatted and timed using parameters similar to the actual test.

### **VTHT 1345 VETERINARY RADIOLOGY**

(Lecture 48; Lab 48; Ext 0; Total Clock Hours: 96/Semester Credit Hours: 3)

The student will learn the theory, principles, and practical application of radiology within the field of veterinary medicine. The student will be able to implement and follow recommended safety procedures; prepare and use technique charts; take and process diagnostic radiographs using stationary and portable x-ray machines; properly care for radiographic equipment; and label, file, and store radiographs.

### **VTHT 1349 VETERINARY PHARMACOLOGY**

(Lecture 48; Lab 0; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 3)

The student will learn the fundamentals of pharmacology including dosage calculations, labeling, packaging, and administration of common veterinary drugs, biologics, and therapeutic agents. The student will also discuss normal and abnormal responses to these agents, as well as the appropriate routes and methods of drug administration.

### **VTHT 1401 INTRODUCTION TO VETERINARY TECHNOLOGY**

(Lecture 48; Lab 48; Ext 0; Total Clock Hours: 96/Semester Credit Hours: 4)

The student will learn about the profession of veterinary technology with emphasis on basic techniques, handling and care of animals, and ethical and professional requirements. The student will be able to demonstrate basic restraint, medication, and treatment techniques for domestic animals, including physical exams and care and husbandry of kennel animals; specify the distinct job responsibilities of a veterinary assistant or technician; and recognize ethical and legal issues.

### **VTHT 1413 VETERINARY ANATOMY AND PHYSIOLOGY**

(Lecture 56; Lab 40; Ext 0; Total Clock Hours: 96/Semester Credit Hours: 4)

The student will learn the gross anatomy of domestic animals including physiological explanations of how each organ system functions. The student will be able to identify and describe the major anatomical and physiological systems of domestic animals and apply this knowledge to common disease processes.

### **VTHT 1441 ANESTHESIA AND SURGICAL ASSISTANCE**

(Lecture 32; Lab 80; Ext 0; Total Clock Hours: 112/Semester Credit Hours: 4)

This course provides an in-depth application of surgical, obstetrical, and anesthesia techniques including identification and use of instruments and equipment. The student will learn to identify instruments used in veterinary surgery, demonstrate operating room etiquette and the use of sterile technique, perform pre-anesthesia evaluation, administer and monitor anesthesia, calculate medications needed, provide post-anesthesia care, recognize and respond appropriately to anesthetic emergencies, and assist with routine surgical procedures.

### **VTHT 1445 VETERINARY RADIOLOGY**

(Lecture 48; Lab 48; Ext 0; Total Clock Hours: 96/Semester Credit Hours: 4)

The student will learn the theory, principles, and practical application of radiology within the field of veterinary medicine. The student will be able to implement and follow recommended safety procedures; prepare and use technique charts; take and process diagnostic radiographs

using stationary and portable x-ray machines; properly care for radiographic equipment; and label, file, and store radiographs.

### **VTHT 1491 SPECIAL TOPICS: SMALL ANIMAL MEDICINE**

(Lecture 48; Lab 48; Ext 0; Total Clock Hours: 96/Semester Credit Hours: 4)

The student will learn the basic care of sick and injured animals including general patient management, supportive care, administration of medications, and first aid. The student will be able to give Sub-Q, IM, IV, and ID injections; perform venipuncture; properly place IV catheters; properly set IV flow rates; perform an ECG; demonstrate wound management care and proper bandaging techniques; and discuss blood transfusions and dentistry.

### **VTHT 2160 CLINICAL—LARGE ANIMAL VETERINARY TECHNICIAN**

(Lecture 0; Lab 0; Ext 48; Total Clock Hours: 48/Semester Credit Hours: 1)

This course is conducted at stables, farms, or other off-campus facilities. Students will perform husbandry and restraint techniques as well as various medical and radiological procedures and will assist in surgical procedures on horses and cattle and other species when available.

### **VTHT 2205 EQUINE CLINICAL MANAGEMENT**

(Lecture 32; Lab 16; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 2)

The student will learn feeding, common management practices, and care of equines in a clinical setting and review common diseases of equines encountered in the practice of veterinary medicine. The student will be able to apply appropriate sanitation and disease prevention techniques; utilize appropriate medication procedures; and implement knowledge of nutrition, behavior, and reproduction of equines in a clinical setting.

### **VTHT 2209 FOOD ANIMAL CLINICAL MANAGEMENT**

(Lecture 32; Lab 16; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 2)

The student will learn feeding, common management practices, and care of food producing animals in a clinical setting and review the common diseases of food producing animals encountered in the practice of veterinary medicine. The student will be able to apply appropriate sanitation and disease prevention techniques; utilize appropriate medication procedures; implement knowledge of nutrition, reproduction, and behavior of food-producing animals in a clinical setting; and recognize common disease pathophysiology of small ruminants, poultry, swine, and bovine.

### **VTHT 2213 LAB ANIMAL CLINICAL MANAGEMENT**

(Lecture 32; Lab 16; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 2)

The student will learn proper feeding, common management practices, and care of laboratory animals in a clinical setting. The student will also review common diseases of laboratory animals encountered in the practice of veterinary medicine. The student will be able to apply appropriate sanitation and disease prevention techniques; utilize medication procedures; implement knowledge of nutrition, reproduction, and behavior of laboratory animals in a clinical setting; and recognize common diseases.

### **VTHT 2217 EXOTIC ANIMAL CLINICAL MANAGEMENT**

(Lecture 32; Lab 16; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 2)

The student will learn feeding, common management practices, and care of exotic animals in a clinical or zoological setting, as well as review common diseases of exotic animals encountered in the practice of veterinary medicine. The student will be able to apply appropriate sanitation and disease prevention techniques; utilize appropriate medication procedures; implement knowledge of nutrition, reproduction, and behavior of exotic animals in a clinical setting; and recognize common diseases.

### **VTHT 2301 CANINE AND FELINE CLINICAL MANAGEMENT**

(Lecture 32; Lab 48; Ext 0; Total Clock Hours: 80/Semester Credit Hours: 3)

The student will learn proper feeding, common management practices, and care of canines and felines in a clinical setting and review common diseases of canines and felines encountered in veterinary medicine. The student will be able to apply appropriate sanitation and disease prevention techniques; utilize appropriate medication procedures; implement knowledge of nutrition, reproduction, and behavior of canines and felines; and recognize common disease pathophysiology of each system and its function.

### **VTHT 2305 EQUINE CLINICAL MANAGEMENT**

(Lecture 48; Lab 0; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 3)

The student will learn feeding, common management practices, and care of equines in a clinical setting and review common diseases of equines encountered in the practice of veterinary medicine. The student will be able to apply appropriate sanitation and disease prevention techniques; utilize appropriate medication procedures; and implement knowledge of nutrition, behavior, and reproduction of equines in a clinical setting.

### **VTHT 2323 VETERINARY CLINICAL PATHOLOGY I**

(Lecture 48; Lab 48; Ext 0; Total Clock Hours: 96/Semester Credit Hours: 3)

The student will complete an in-depth study of hematology and related chemistries with emphasis on lab procedures. The student will be able to perform blood counts (CBCs); recognize abnormal blood conditions; perform blood chemistries, pre-anesthesia evaluations, reticulocyte counts, blood coagulation tests, urinalysis, and microbiology; and demonstrate appropriate use of diagnostic equipment.

### **VTHT 2371 VTNE PREPARATION**

(Lecture 48; Lab 0; Ext 0; Total Clock Hours: 48/Semester Credit Hours: 3)

The student will participate in a comprehensive review of both theory and practical application. This course is designed to prepare the student to sit for the Veterinary Technician National Exam. Discussions will be followed by exams formatted and timed using parameters similar to the actual test.

### **VTHT 2423 VETERINARY CLINICAL PATHOLOGY I**

(Lecture 48; Lab 48; Ext 0; Total Clock Hours: 96/Semester Credit Hours: 4)

The student will complete an in-depth study of hematology and related chemistries with emphasis on lab procedures. The student will be able to perform blood counts (CBCs); recognize abnormal blood conditions; perform blood chemistries, pre-anesthesia evaluations,

reticulocyte counts, blood coagulation tests, urinalysis, and microbiology; and demonstrate appropriate use of diagnostic equipment.

**VTHT 2460 CLINICAL—VETERINARY TECHNICIAN**

(Lecture 0; Lab 0; Ext 288; Total Clock Hours: 288/Semester Credit Hours: 4)

The student will complete a health-related work-based learning experience to apply specialized occupational theory, skills, and concepts. Externships are served in a veterinary clinic, hospital, or other animal facility. Direct supervision is provided by the clinical professional. The externship experience provides the student with the opportunity to build upon the clinical and practical skills learned in the classroom.

**VTHT 2560 CLINICAL—VETERINARY TECHNICIAN**

(Lecture 0; Lab 0; Ext 264; Total Clock Hours: 264/Semester Credit Hours: 5)

The student will complete a health-related work-based learning experience to apply specialized occupational theory, skills, and concepts. Externships are served in a veterinary clinic, hospital, or other animal facility. Direct supervision is provided by the clinical professional. The externship experience provides the student with the opportunity to build upon the clinical and practical skills learned in the classroom.

**VTHT 2660 CLINICAL—VETERINARY TECHNICIAN**

(Lecture 0; Lab 0; Ext 288; Total Clock Hours: 288/Semester Credit Hours: 6)

The student will complete a health-related work-based learning experience to apply specialized occupational theory, skills, and concepts. Externships are served in a veterinary clinic, hospital, or other animal facility. Direct supervision is provided by the clinical professional. The externship experience provides the student with the opportunity to build upon the clinical and practical skills learned in the classroom.