

VET TECH INSTITUTE
COMPENDIUM OF CATALOG COURSE DESCRIPTIONS
ACADEMIC YEARS 2005-2006 TO 2019-2024

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 15 clock hours of lecture, 30 clock hours of laboratory where classroom theory is applied and explored or manipulative skills are enhanced, 45 clock hours of externship/practicum, or a combination of these three.

AR104 Math

The student will be introduced to basic math skills, including dosage calculations that are an important part of the career. (60 Clock Hours/3 Semester Credits)

AR105 Terminology

The student will be introduced to basic terminology used in veterinary practice. Emphasis is placed on the understanding of composition of terms including the use of prefixes and suffixes. (38 Clock Hours/2 Semester Credits)

AR106 Fundamentals of Chemistry

This course introduces the student to general chemistry and focuses upon the relationship between chemistry and biological reactions in living organisms. Included are the properties of matter, interactions between molecules, acids and bases, and basic biochemical principles. (40 Clock Hours/2 Semester Credits)

AR107 Pharmacology

This course concerns all aspects of medications according to their clinical usage and method of administration. Emphasis is placed on the veterinary technician's role in the veterinary pharmacy. This course also focuses on drug dosage calculations. (60 Clock Hours/3 Semester Credits)

AR108 Pharmacology I

This course concerns all aspects of medications according to their clinical usage and method of administration. Emphasis is placed on the veterinary technician's role in the veterinary pharmacy. This course also focuses on drug dosage calculations. (40 Clock Hours/2 Semester Credits)

AR109 Pharmacology II

This course continues its focus on all aspects of medications according to their clinical usage and method of administration. Students practice additional pharmacological dosage calculations. (40 Clock Hours/2 Semester Credits)

AR110 General Biology

This course focuses on the biology and chemistry of the animal body including cell structure and function, metabolism, genetic composition, tissues, and basic genetic principles. This course also focuses on the understanding of the chemical elements and how they compose the body. (38 Clock Hours/2 Semester Credits)

AR114 Math for Veterinary Technicians

Students will be introduced to basic math skills, including dosage calculations that are an important part of the career. (57 Clock Hours/2 Semester Credits)

AR115 Terminology

Students will be introduced to basic terminology used in veterinary medicine. Emphasis is placed on the understanding of composition of terms including the use of prefixes and suffixes. (38 Clock Hours/1 Semester Credit)

AR201 Professional Development

This course focuses on the student learning effective job search techniques, resume/cover letter preparation, essential interview skills, and expected work ethics for career success. Communication skills and professionalism standards are honed via classroom lectures and discussions, instructor-prepared handouts, and textbook study. Internet job search techniques as well as relocation and program-specific information and opportunities will be discussed. (40 Clock Hours/2 Semester Credits)

AR202 Professional Development

This course focuses on students' learning effective job search techniques, resume/cover letter preparation, essential interview skills, and expected work ethics for career success. Communication skills and professionalism standards are honed via classroom lectures and discussions, instructor-prepared handouts, and textbook study. Internet job search techniques as well as relocation and program-specific information and opportunities will be discussed. (19 Clock Hours/1 Semester Credit)

AR203 Veterinary Office Procedures

This course focuses on aspects of veterinary practice operations. Topics such as appointment scheduling, general office and billing procedures, client relations, OSHA, client education, teamwork, the veterinary technician's role in euthanasia, and ethical situations are discussed. (40 Clock Hours/2 Semester Credits)

AR213 Veterinary Office Procedures

This course focuses on aspects of veterinary practice operations. Topics such as appointment scheduling, general office and billing procedures, client relations, OSHA, client education, teamwork, the veterinary technician's role in euthanasia, and ethical situations are discussed. (36 Clock Hours/1 Semester Credit)

AR220 Personal Finance

In this course students acquire the knowledge and develop the necessary analytical skills to make informed choices related to topics such as managing finances and budgeting, banking and saving, earning and reporting income, buying goods and services, using credit, and protecting against risk. This course puts emphasis on goal setting, lifelong learning, and active decision making. (18 Clock Hours/1 Semester Credit)

CO201 Introduction to Computers

This course develops the understanding and use of basic computer applications. Emphasis is placed on the proper techniques used in keyboarding, word processing, and data entry. Students will also learn various approaches to internet research including the most productive use of databases and professional websites. (36 Clock Hours/1 Semester Credit)

EN201 Business English

Business English provides a traditional basic overview of the language skills necessary to write complete and accurate sentences, well-structured paragraphs, memos, and letters. Focus is on grammar, sentence structure, mechanics, and spelling. Additionally, students will apply basic language and research skills to prepare a written and oral presentation. (60 Clock Hours/3 Semester Credits)

EN211 Business English

Business English provides a traditional basic overview of the language skills necessary to write complete and accurate sentences, well-structured paragraphs, memos, and letters. Focus is on grammar, sentence structure, mechanics, and spelling. Additionally, students will apply basic language and research skills to prepare a written and oral presentation. (38 Clock Hours/2 Semester Credits)

GE204 Psychology of Human Relations

This course provides a general overview of foundational psychology as well as the areas of psychology that most influence the dynamic of human relationships in personal life and the workplace. The course moves from an introductory historical overview to the various schools of thought in psychology into the basics of human development, motivation, and emotion; mental health and wellness; personality/self-concept; and goal setting. (60 Clock Hours/3 Semester Credits)

GE205 Psychology of Human Relations

This course provides a general overview of the foundational psychology that influences the dynamics of human relationships in both personal life and the workplace. It will also include theories of learning, social psychology, and issues relating to physical and emotional wellness. (38 Clock Hours/2 Semester Credits)

VT101 Clinical Medicine I

This course focuses on recognition of canine and feline breeds, concepts of behavior, and vaccine types and protocols. (38 Clock Hours/2 Semester Credits)

VT102 Clinical Medicine II

This course focuses on animal nutrition and presents detailed information on a variety of nutrients, vitamins, and minerals emphasizing the role nutrition plays in an animal's overall health. (38 Clock Hours/2 Semester Credits)

VT103 Animal Technology I

Through theory and practical application, this course teaches students the aspects of kennel care and management. Additionally, restraint techniques, common abbreviations, physical exams, and basic grooming are included. (38 Clock Hours/1 Semester Credit)

VT104 Animal Technology II

This course builds upon Animal Technology I with an emphasis on sample collection. Instruction will cover sample collection of both urine and blood specimens through various routes as well as administration of injections through various routes. (38 Clock Hours/1 Semester Credit)

VT105 Animal Anatomy & Physiology I

This course concerns the structure and function of the animal body and its parts. Instruction is geared toward the understanding of the cell system, skeletal system, muscular system, and nervous system. Emphasis is placed on the clinical use of anatomy and physiology in veterinary medicine. (40 Clock Hours/2 Semester Credits)

VT106 Animal Anatomy & Physiology II

This course builds on Animal Anatomy & Physiology I. In this course the structure and function of the circulatory, respiratory, gastrointestinal, excretory/renal, reproductive, and sense organ systems are studied. Emphasis is placed on the clinical use of anatomy and physiology in veterinary medicine. (40 Clock Hours/2 Semester Credits)

VT107 Clinical Laboratory I

This course reviews basic laboratory equipment and glassware. Students are introduced to basic veterinary hematology with emphasis placed on normal test values of individual animal species. (38 Clock Hours/1 Semester Credit)

VT108 Clinical Laboratory II

This course builds upon Clinical Laboratory I with a more in-depth study of hematology. Blood cell components, blood transfusions, and morphology are covered. (38 Clock Hours/1 Semester Credit)

VT109 Surgical Nursing I

This course will prepare students to assist in veterinary surgery. Students are introduced to aseptic surgery techniques, surgical instrumentation identification and use, patient preparation, positioning for various surgical procedures, and common veterinary suture materials and patterns. (38 Clock Hours/2 Semester Credits)

VT110 Anesthesia

This course concerns all aspects of the anesthetic process, anesthetic agents used in veterinary medicine and their effects, and anesthetic equipment functions and use. The student will apply mathematical skills to practice calculations using common anesthetics and their dosages. The veterinary technician's role in relationship to the veterinarian is a key point of study. (60 Clock Hours/3 Semester Credits)

VT111 Clinical Medicine III

This course is an in-depth study of canine and feline diseases. Students will focus on pathology of disease, necropsy, viruses, bacteria, protozoa-borne and vector-borne diseases, zoonosis, dermatology, and the endocrine system. (38 Clock Hours/2 Semester Credits)

VT112 Clinical Medicine IV

This course is a continuation of Clinical Medicine III. Diseases of the reproductive, neurological, musculoskeletal, and cardio respiratory systems are presented. (38 Clock Hours/2 Semester Credits)

VT113 Animal Technology III

This course builds upon Animal Technology II and is focused on parasitology and fecal tests. (38 Clock Hours/1 Semester Credit)

VT114 Animal Technology IV

This course focuses on advanced techniques of laboratory animal research, including care and maintenance, disease process, blood collection procedures, anesthesia administration, and regulatory requirements for rats, mice, guinea pigs, rabbits, and ferrets. (38 Clock Hours/1 Semester Credit)

VT115 Clinical Laboratory III

This course builds upon Clinical Laboratory II, with emphasis placed on further individual animal species testing to include: Felv/Fiv testing, brucellosis testing, heartworm testing, urinalysis, and blood analyzers. (38 Clock Hours/1 Semester Credit)

VT116 Clinical Laboratory IV

This course builds upon Clinical Laboratory III. Students will learn the principles of cytology, as well as types of testing for diseases. Students will also learn the principles and perform basic microbiology techniques as well as collect, culture, stain, identify, and perform sensitivity testing on bacterial specimens. (40 Clock Hours/1 Semester Credit)

VT117 Anesthesia I

This course concerns all aspects of the anesthetic process, anesthetic agents used in veterinary medicine and their effects, and the anesthetic equipment's functions and use. Students will apply mathematical skills to determine appropriate dosages of common anesthetic agents. The veterinary technician's role in relationship to the veterinarian is a key point of study. (38 Clock Hours/2 Semester Credits)

VT118 Anesthesia II

This course provides a more in-depth approach to all phases of the administration of anesthesia in both the pre- and post-operative phases of treatment as well as instruction in fluid therapy, electrocardiography, and dentistry. (38 Clock Hours/2 Semester Credits)

VT119 Animal Anatomy & Physiology I

This course concerns the structure and function of the animal body and its parts. Instruction is geared toward tissues, skeletal system, nervous system, endocrine system, and sense organs. (60 Clock Hours/3 Semester Credits)

VT120 Animal Anatomy & Physiology II

This course builds on Animal Anatomy & Physiology I. In this course the structure and function of the circulatory, respiratory, gastrointestinal, excretory/renal, reproductive, and integumentary systems are studied. Emphasis is placed on the clinical use of anatomy and physiology in veterinary medicine. (60 Clock Hours/3 Semester Credits)

VT129 Animal Anatomy & Physiology I

This course concerns the structure and function of the animal body and its parts. Instruction is geared toward tissues, skeletal system, nervous system, endocrine system, and sense organs. (57 Clock Hours/2 Semester Credits)

VT130 Animal Anatomy & Physiology II

This course builds on Animal Anatomy & Physiology I. In this course the structure and function of the circulatory, respiratory, gastrointestinal, excretory/renal, reproductive, and integumentary systems are studied. Emphasis is placed on the clinical use of anatomy and physiology in veterinary medicine. (57 Clock Hours/2 Semester Credits)

VT131 Pharmacology I

This course concerns clinical usage of medications and methods of administration. Emphasis is placed on the veterinary technician's role in the veterinary pharmacy. This course also focuses on drug dosage calculations. (38 Clock Hours/2 Semester Credits)

VT132 Pharmacology II

This course continues its focus on all aspects of clinical usage of medications and methods of administration. Students will continue to calculate pharmacological dosages. (38 Clock Hours/2 Semester Credits)

VT201 Clinical Medicine V

This course is a continuation of Clinical Medicine IV. Diseases of the digestive system and renal system will be discussed. The focus in the remainder of the course is emergency management and the veterinary technician's role in emergency situations. Emphasis is placed on the following topics: proper methods of evaluating an animal in an emergency situation, how disease processes manifest as emergencies, and the equipment and medications used during emergencies. (60 Clock Hours/3 Semester Credits)

VT202 Animal Technology V

This course focuses on the care and maintenance, disease process, blood collection procedures, anesthesia administration, and regulatory requirements for exotics, primates, avians, reptiles, and amphibians. (38 Clock Hours/1 Semester Credit)

VT203 Animal Technology VI

This course builds upon Animal Technology V with an emphasis placed on advanced techniques, such as advanced surgical procedures, bandaging and wound management, orthopedics, feeding tube usage, and other special procedures. (38 Clock Hours/1 Semester Credit)

VT204 Surgical Nursing II

This course is designed to permit the students to apply all skills and the knowledge acquired in Pharmacology, Anesthesia, and Surgical Nursing I to perform actual surgical assisting roles. Students will gain experience in anesthesia administration, sterile and non-sterile assisting, patient preparation, surgical clean up, and recovery of their patient. These duties will be performed as part of a student team under the supervision of the staff veterinarian and licensed instructor. (32 Clock Hours/1 Semester Credit)

VT205 Radiography I

This course includes the theory of general and dental radiography, methods for exposing and developing films, animal restraint, proper positioning, radiation safety, film reading, and error identification, correction, and prevention. (40 Clock Hours/2 Semester Credits)

VT206 Radiography II

This course builds upon the first radiography course with students beginning their practical hands-on repetitions to achieve competency in taking and developing radiographs. This course also focuses on the theory and application of ultrasonography, endoscopy, and fluoroscopy. (32 Clock Hours/1 Semester Credit)

VT207 Large Animal Theory I

This course will introduce the student to farm animal medicine. Students will become acquainted with anatomy, breed identification, management, restraint methods, physical exams, reproduction, nutrition, and husbandry. (20 Clock Hours/1 Semester Credit)

VT208 Large Animal Theory II

This course continues theories introduced in Large Animal Theory I to include more in-depth information on diseases for farm animal species such as horses, pigs, and cattle. Herd health maintenance measures are also discussed. (45 Clock Hours/3 Semester Credits)

VT209 Large Animal Practicum

The large animal practicum introduces students to interactions with large animals in offsite hands-on settings. Students gain experience with and exposure to a wide variety of farm animals. Emphasis is placed on the basic skills of large animal care, handling, restraint, physical exams, and blood collection. Radiographic positioning relevant to large animal practice is also demonstrated. (45 Clock Hours/1 Semester Credit)

VT210 VTNE Preparation

This course is a comprehensive review of both theory and practical application. It is designed to prepare students to sit for the Veterinary Technician National Examination. Discussions will be followed by exams formatted and timed using parameters similar to the actual test. (38 Clock Hours/2 Semester Credits)

VT211 Vet Tech Externship

Externships are served in a veterinary clinic, hospital, or other animal facility. The externship experience provides the student with the opportunity to build upon the clinical and practical skills learned in the classroom. (270 Clock Hours/6 Semester Credits)

VT212 Radiography II

This course builds upon the first radiography course with students beginning their practical hands-on repetitions to achieve competency in taking and developing radiographs. This course also focuses on the theory and application of ultrasonography, endoscopy, and fluoroscopy. (36 Clock Hours/1 Semester Credit)

VT213 Surgical Nursing II

This course is designed to permit the students to apply all skills and the knowledge acquired in Pharmacology, Anesthesia, and Surgical Nursing I to perform actual surgical assisting roles. Students will gain experience in anesthesia administration, sterile and non-sterile assisting, patient preparation, surgical clean up, and recovery of their patient. (57 Clock Hours/1 Semester Credit)

VT214 Large Animal Theory I

This course will introduce students to farm animal medicine. Students will become acquainted with anatomy, breed identification, management, restraint methods, physical exams, reproduction, nutrition, and husbandry. (38 Clock Hours/1 Semester Credit)

VT215 Clinical Laboratory IV

This course builds upon Clinical Laboratory III. Students will learn the principles of cytology and diagnostic tests for diseases. Students will also learn the principles and perform basic microbiology techniques as well as collect, culture, stain, identify, and perform sensitivity testing on bacterial specimens. This final lab course serves to provide an overall review in the most pertinent concepts and practices taught in previous clinical lab courses. (57 Clock Hours/1 Semester Credit)

VT218 Large Animal Theory II

This course continues theories introduced in Large Animal Theory I to include more in-depth information on the diseases for farm animal species such as horses, pigs, and cattle. Herd health maintenance measures are also discussed. (38 Clock Hours/1 Semester Credit)

VT221 Clinical Medicine V

This course is a continuation of Clinical Medicine IV focusing on the diseases of the digestive and renal systems and the veterinary technician's role in emergency situations. Emphasis is placed on: proper methods of evaluating an animal in an emergency situation, how disease processes manifest as emergencies, and the equipment and medications used during emergencies. (57 Clock Hours/2 Semester Credits)

VT225 Radiography I

This course includes the theory of general and dental radiography, radiation safety, proper restraint, proper positioning, methods for exposing and developing films, and recognition and correction of technique errors. (38 Clock Hours/1 Semester Credit)

VT226 Surgical Nursing II

In this course students will apply all skills and knowledge acquired in previous courses to perform the various roles in assisting surgical procedures. Students will gain experience in anesthesia administration, sterile and non-sterile assisting, patient preparation, surgical clean up, and patient recovery. (90 Clock Hours/3 Semester Credits)

VT235 Large Animal Theory II

This course continues with the theories introduced in Large Animal Theory I to include more in-depth information on the diseases of farm animal species such as horses, cattle, sheep, goats, alpacas, and pigs. This course also includes information on herd health maintenance measures, nursing care, and surgical considerations of farm animal species. Emphasis is placed on the basic skills of large animal care, handling, restraint, physical exams, medication administration, and blood collection. Hands-on skills will be learned and assessed in offsite settings. (54 Clock Hours/2 Semester Credits)

VT290 Vet Tech Externship

Externships are served in a veterinary clinic, hospital, or other animal facility. The externship experience provides students with the opportunity to build upon the clinical and practical skills learned in the classroom. During this time, students are expected to maintain a required number of case logs in order to prepare case studies. (270 Clock Hours/6 Semester Credits)