Veterinary Technology (VTCH)

Courses

VTCH A101 Introduction to Veterinary Technology 1 Credit
Introduces the veterinary profession to individuals considering a career in the field. Introduces responsibilities and expectations as well as legal boundaries of a veterinary health care team. Emphasizes the application of professional ethics and laws in veterinary medicine and professional development. Orient students to Mat-Su College resources and tools for student success.

VTCH A102 Veterinary Medical Terminology 1 Credit
Introduces veterinary medical terminology for common clinically recognizable diseases, operations, systems, and procedures, as well as common medical abbreviations and colloquial vocabulary.

VTCH A110 Medical Calculations for Veterinary Technicians 1 Credit
Emphasizes mathematical fundamentals necessary for a veterinary technician to work as a successful member of a veterinary team. Reviews basic mathematical functions and applies them to medical calculations clinically important to veterinary technicians. Focuses on medical calculations: dosages, drip rates, concentrations, and other drug administration information.

Prerequisites: VTCH A101 with a minimum grade of C and VTCH A102 with a minimum grade of C.

VTCH A111 Veterinary Office Procedures and Hospital Management 3 Credits
Develops skills veterinary practices utilize in a modern veterinary facility. Instruction will include but is not limited to: developing good public, client and staff relations; front office procedures; client services and education; breed and species identification and considerations; and personal grooming and professional attire. Emphasizes professional development and application of ethics and law in veterinary medicine.

Prerequisites: VTCH A101 with a minimum grade of C and VTCH A102 with a minimum grade of C.

VTCH A112 Veterinary Anatomy and Physiology 3 Credits
Covers the fundamentals of domestic animal anatomy and physiology using a systems approach with a focus on anatomical structures of clinical importance to veterinary technicians.

Prerequisites: VTCH A101 with a minimum grade of C and VTCH A102 with a minimum grade of C.

Corequisites: VTCH A112L.

VTCH A112L Veterinary Anatomy and Physiology Laboratory 1 Credit
Applies a hands-on approach to learning the fundamentals of domestic animal anatomy and physiology by major organ system utilizing dissection specimens, models, experiments, and other laboratory tools and supplies as needed. Focuses on anatomical structures of clinical importance to veterinary technicians.

Prerequisites: VTCH A101 with a minimum grade of C and VTCH A102 with a minimum grade of C.

Corequisites: VTCH A112.

VTCH A113 Veterinary Nursing Skills 3 Credits
Introduces personal safety and techniques for handling and restraining dogs and cats. Discusses critical thinking and technical skills required to perform physical examination, resuscitation, medication of animals, collection of laboratory specimens, and application of bandages. Covers venipuncture and intravenous catheter placement.

Prerequisites: VTCH A101 with a minimum grade of C and VTCH A102 with a minimum grade of C.

Corequisites: VTCH A113L.

VTCH A113L Veterinary Nursing Skills Laboratory 1 Credit
Applies personal safety and techniques for handling and restraining dogs and cats. Emphasizes critical thinking and the technical skills of physical examination, resuscitation, medication of animals, collection of laboratory specimens, and application of bandages. Teaches venipuncture and intravenous catheter placement techniques.

Prerequisites: VTCH A101 with a minimum grade of C and VTCH A102 with a minimum grade of C.

Corequisites: VTCH A113.

VTCH A120 Pharmacology for Veterinary Technicians 2 Credits
Develops pharmaceutical skills and knowledge of common drugs and medications veterinary technicians use in the modern veterinary facility. Emphasizes classes of drugs, their use, potential side effects and contraindications, calculation of drug dosages, and administration and dispensation of drugs and medications. Discusses legal issues and record keeping.

Prerequisites: VTCH A110 with a minimum grade of C and VTCH A111 with a minimum grade of C and VTCH A112 with a minimum grade of C and VTCH A112L with a minimum grade of C and VTCH A113 with a minimum grade of C and VTCH A113L with a minimum grade of C.

VTCH A121 Small Animal Medicine 3 Credits
Introduces the topics of small animal health and disease for dogs and cats. Covers preventive medicine and specific disease processes commonly encountered in veterinary practice and clinically relevant to veterinary technicians. Addresses vaccination protocols and nutrition.

Prerequisites: VTCH A110 with a minimum grade of C and VTCH A111 with a minimum grade of C and VTCH A112 with a minimum grade of C and VTCH A112L with a minimum grade of C and VTCH A113 with a minimum grade of C and VTCH A113L with a minimum grade of C.

VTCH A122 Veterinary Surgical Nursing 3 Credits
Covers veterinary nursing fundamentals used in common surgical procedures. Includes procedural management and instrument identification, care and use. Emphasizes asepsis, surgical assistance and patient management.

Prerequisites: VTCH A110 with a minimum grade of C and VTCH A111 with a minimum grade of C and VTCH A112 with a minimum grade of C and VTCH A112L with a minimum grade of C and VTCH A113 with a minimum grade of C and VTCH A113L with a minimum grade of C.

Corequisites: VTCH A122L.
VTCH A223L. Veterinary Surgical Nursing Laboratory I 1 Credit
Applies veterinary nursing fundamentals used in common surgical
procedures. Includes procedural management and instrument
identification, care and use. Emphasizes asepsis, surgical assistance and
patient management.
Prerequisites: VTCH A110 with a minimum grade of C and
VTCH A111 with a minimum grade of C and VTCH A112 with a
minimum grade of C and VTCH A112L with a minimum grade of C
and VTCH A113 with a minimum grade of C and VTCH A113L with a
minimum grade of C.
Corequisites: VTCH A122.

VTCH A130. Applied Small Animal Behavior I 1 Credit
Introduces natural history and developmental behavior of dogs and cats, principles of learning theory, and practical applications to behavior modification. Applies specific behavior modification techniques to
developing written client education handouts.
Prerequisites: VTCH A195 with a minimum grade of C.

VTCH A195. Clinical Externship I 3 Credits
Provides guided learning experience in a veterinary clinical setting.
Applies veterinary technology theory and skills acquired during the first
year of VTCH courses.
Special Note: Requires 45 hours of work experience for each credit
(135 approved hours).
Prerequisites: VTCH A120 with a minimum grade of C and
VTCH A121 with a minimum grade of C and VTCH A122 with a
minimum grade of C and VTCH A122L with a minimum grade of C
and VTCH A223 with a minimum grade of C and VTCH A223L with a
minimum grade of C.

VTCH A223. Veterinary Microbiology and Parasitology 3 Credits
Introduces clinical veterinary microbiology and parasitology, zoonotic
diseases, and veterinary public health.
Prerequisites: VTCH A110 with a minimum grade of C and
VTCH A111 with a minimum grade of C and VTCH A112 with a
minimum grade of C and VTCH A112L with a minimum grade of C
and VTCH A113 with a minimum grade of C and VTCH A113L with a
minimum grade of C.
Corequisites: VTCH A223L.

VTCH A223L. Veterinary Microbiology and Parasitology Laboratory I 1 Credit
Applies the fundamentals of specimen collecting, handling and testing in clinical veterinary microbiology and parasitology, zoonotic diseases, and veterinary public health.
Prerequisites: VTCH A110 with a minimum grade of C and
VTCH A111 with a minimum grade of C and VTCH A112 with a
minimum grade of C and VTCH A112L with a minimum grade of C
and VTCH A113 with a minimum grade of C and VTCH A113L with a
minimum grade of C.
Corequisites: VTCH A223.

VTCH A231. Veterinary Diagnostic Imaging and Dentistry 2 Credits
Introduces theory and principles of diagnostic imaging and dentistry techniques used in veterinary medicine. Covers safe procedures for producing quality radiographs. Examines dentistry evaluation, diagnostics and prophylaxis in small animals.
Prerequisites: VTCH A195 with a minimum grade of C.
Corequisites: VTCH A231L.

VTCH A231L. Veterinary Diagnostic Imaging and Dentistry Laboratory I 1 Credit
Applies theories and principles of diagnostic imaging and dentistry techniques used in veterinary medicine. Emphasizes safe procedures for producing quality radiographs. Employs learned dentistry techniques for performing dental evaluations, diagnostics and prophylaxes in small animals.
Prerequisites: VTCH A195 with a minimum grade of C.
Corequisites: VTCH A231.

VTCH A232. Veterinary Anesthesia and Analgesia 3 Credits
Provides in-depth examination of veterinary anesthesia techniques, including identification and use of anesthetic-related drugs and equipment. Covers performing pre-anesthesia evaluations, administering and monitoring anesthesia, providing post-anesthesia care, recognizing and responding to anesthetic emergencies, evaluating patients, and implementing pain management protocols.
Prerequisites: VTCH A195 with a minimum grade of C.
Corequisites: VTCH A232L.

VTCH A232L. Veterinary Anesthesia and Analgesia Laboratory I 1 Credit
Applies veterinary anesthesia techniques, including identification and use of anesthetic-related drugs and equipment, for performing pre-anesthesia evaluations, administering and monitoring anesthesia, providing post-anesthesia care, recognizing and responding to anesthetic emergencies, evaluating patients, and implementing pain management protocols.
Prerequisites: VTCH A195 with a minimum grade of C.
Corequisites: VTCH A232.

VTCH A233. Veterinary Clinical Pathology 3 Credits
Covers veterinary hematology, cytology, blood chemistry, serology and urinalysis. Describes in-depth procedures for performing diagnostic tests and collecting, handling, and evaluating specimens.
Prerequisites: VTCH A195 with a minimum grade of C.
Corequisites: VTCH A233L.

VTCH A233L. Veterinary Clinical Pathology Laboratory I 1 Credit
Applies information covering veterinary hematology, cytology, blood chemistry, serology and urinalysis. Prepares students to perform diagnostic tests and collect, handle and evaluate specimens.
Prerequisites: VTCH A195 with a minimum grade of C.
Corequisites: VTCH A233.

VTCH A240. Applied Small Animal Behavior II 1 Credit
Expands on principles of learning theory and behavior modification techniques. Describes inappropriate elimination, disruptive behavior, separation anxiety, fear, and aggression in dogs and cats and situational and behavioral modifications used for addressing those problems. Discusses pharmacotherapy as an adjunct for behavior modification.
Prerequisites: VTCH A130 with a minimum grade of C and
VTCH A231 with a minimum grade of C and VTCH A231L with a
minimum grade of C and VTCH A232 with a minimum grade of C
and VTCH A232L with a minimum grade of C and VTCH A233 with a
minimum grade of C and VTCH A233L with a minimum grade of C.
VTCH A241 Laboratory and Exotic Animal Medicine 2 Credits
Discusses common laboratory and exotic animal species and their unique husbandry issues, handling and restraining, gender determination, reproduction, nutrition, common diseases, and clinical and surgical procedures.
**Prerequisites:** VTCH A130 with a minimum grade of C and VTCH A231 with a minimum grade of C and VTCH A231L with a minimum grade of C and VTCH A232 with a minimum grade of C and VTCH A232L with a minimum grade of C and VTCH A233 with a minimum grade of C and VTCH A233L with a minimum grade of C.
**Corequisites:** VTCH A241L.

VTCH A241L Laboratory and Exotic Animal Medicine Laboratory 1 Credit
Applies techniques for the care and handling, restraining, feeding, gender determination, and performance of clinical and surgical procedures of common laboratory and exotic animals.
**Prerequisites:** VTCH A130 with a minimum grade of C and VTCH A231 with a minimum grade of C and VTCH A231L with a minimum grade of C and VTCH A232 with a minimum grade of C and VTCH A232L with a minimum grade of C and VTCH A233 with a minimum grade of C and VTCH A233L with a minimum grade of C.
**Corequisites:** VTCH A241.

VTCH A242 Large Animal Medicine and Clinical Procedures 2 Credits
Discusses common large animal species and their unique husbandry issues, handling and restraining, reproduction, nutrition, common diseases, and clinical and surgical procedures.
**Prerequisites:** VTCH A130 with a minimum grade of C and VTCH A231 with a minimum grade of C and VTCH A231L with a minimum grade of C and VTCH A232 with a minimum grade of C and VTCH A232L with a minimum grade of C and VTCH A233 with a minimum grade of C and VTCH A233L with a minimum grade of C.
**Corequisites:** VTCH A242L.

VTCH A242L Large Animal Medicine and Clinical Procedures Laboratory 1 Credit
Applies techniques for care, reproductive management, disease prevention, handling, restraining, feeding, and performing clinical and surgical procedures for common large animals.
**Prerequisites:** VTCH A130 with a minimum grade of C and VTCH A231 with a minimum grade of C and VTCH A231L with a minimum grade of C and VTCH A232 with a minimum grade of C and VTCH A232L with a minimum grade of C and VTCH A233 with a minimum grade of C and VTCH A233L with a minimum grade of C.
**Corequisites:** VTCH A242.

VTCH A243 Career Success for Veterinary Technicians 1 Credit
Emphasizes professionalism, critical thinking tools, interpersonal skills and professional ethics for success as a veterinary technician. Teaches resume writing and job interviewing techniques. Explores career options, professional development opportunities, and current and projected trends in veterinary technology.
**Prerequisites:** VTCH A130 with a minimum grade of C and VTCH A231 with a minimum grade of C and VTCH A231L with a minimum grade of C and VTCH A232 with a minimum grade of C and VTCH A232L with a minimum grade of C and VTCH A233 with a minimum grade of C and VTCH A233L with a minimum grade of C.

VTCH A244 Veterinary Technician National Exam Preparation 1 Credit
Describes and applies study strategies and test-taking skills for successfully completing the Veterinary Technician Nation Exam (VTNE). Reviews all VTCH curricula content and related practice tests.
**Prerequisites:** VTCH A130 with a minimum grade of C and VTCH A231 with a minimum grade of C and VTCH A231L with a minimum grade of C and VTCH A232 with a minimum grade of C and VTCH A232L with a minimum grade of C and VTCH A233 with a minimum grade of C and VTCH A233L with a minimum grade of C.

VTCH A295 Clinical Externship II 3 Credits
Combines veterinary clinical skills with theoretical knowledge to complete student preparation for licensure and employment opportunities after graduation.
**Special Note:** Requires 45 hours of work experience for each credit (135 approved hours).
**Prerequisites:** VTCH A130 with a minimum grade of C and VTCH A231 with a minimum grade of C and VTCH A231L with a minimum grade of C and VTCH A232 with a minimum grade of C and VTCH A232L with a minimum grade of C and VTCH A233 with a minimum grade of C and VTCH A233L with a minimum grade of C.