

VETERINARY TECHNOLOGY (VTEC)

VTEC 10001 INTRODUCTION TO VETERINARY TECHNOLOGY 2 Credit Hours

Introduction to veterinary technician's career: medical terminology, career choices, occupational safety, human-animal bond, pet loss, euthanasia, animal husbandry and basic nutrition and basic animal behavior.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

VTEC 10002 VETERINARY NURSING I 3 Credit Hours

Introduction to animal nursing: record keeping, kennel sanitation, animal restraint, syringe and needle identification/handling, injection techniques, physical exams, grooming and administration of medications and breed identification.

Prerequisite: Admission to technical study; and veterinary technology major.

Schedule Type: Laboratory, Lecture, Combined Lecture and Lab

Contact Hours: 2 lecture, 3 lab

Grade Mode: Standard Letter

VTEC 10003 VETERINARY PHARMACOLOGY I 2 Credit Hours

This is the first of two courses in the Veterinary Technology program that presents an introduction to the principles of pharmacology for the Veterinary Technician. The course will provide an overview of veterinary pharmacology and therapeutics, including a basic understanding of pharmacokinetics, terminology, prescription writing, methods of administration, controlled substance use and regulations and dosage calculations.

Prerequisite: CHEM 10050 or CHEM 10055; and VTEC 10001 and VTEC 10002 and VTEC 10204.

Pre/corequisite: VTEC 10205.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

VTEC 10204 CLINICAL LABORATORY I 3 Credit Hours

Introduction to clinical laboratory: equipment and equipment maintenance; internal and external parasites; urinalysis. Lecture 2 hours, laboratory 3 hours weekly.

Prerequisite: Veterinary technology major.

Schedule Type: Laboratory, Lecture, Combined Lecture and Lab

Contact Hours: 2 lecture, 3 lab

Grade Mode: Standard Letter

VTEC 10205 VETERINARY NURSING II 3 Credit Hours

Clinical application off-site. Emphasis on skills from VTEC 10002; physical exam, medications, blood vessels catheterization, venipuncture; fluid therapy, wound care, patient rehabilitation and physical therapy, first aid, bandaging and CPR.

Prerequisite: Minimum C grade in all the following courses: BSCI 10005 and CHEM 10050 (or CHEM 10055) and VTEC 10002 and VTEC 10204.

Pre/corequisite: VTEC 10001.

Schedule Type: Laboratory, Lecture, Combined Lecture and Lab

Contact Hours: 1.7 lecture, 5 lab

Grade Mode: Standard Letter

VTEC 10206 PHARMACOLOGY 2 Credit Hours

Regulations controlling the use of drugs and biologicals, classifications and mechanisms of action of pharmaceuticals, dosage calculations, labeling, packaging and dispensing of veterinary products.

Prerequisite: BSCI 10005 and (CHEM 10050 or CHEM 10055); and VTEC 10001 and VTEC 10002 and VTEC 10204.

Pre/corequisite: VTEC 10205 and BSCI 10110.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

VTEC 20001 NUTRITION OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS 2 Credit Hours

Students will gain a basic understanding of clinical nutrition for domestic animals, both small and large, for various life stages and illnesses. Concepts will include nutrient composition, reading pet food labels, evaluation pet foods, understanding specialty, prescription, and alternative diets, use of various feeding tubes and their application to domestic animals and understanding illnesses that can occur due to improper nutrition.

Prerequisite: VTEC 10001 and VTEC 10002 and VTEC 10204.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

VTEC 20002 DISEASES OF DOMESTIC ANIMALS FOR VETERINARY TECHNICIANS 2 Credit Hours

Students will gain knowledge of disease and pathology in domesticated large and small animal species. Discussion of the immune system and its role in disease, classifications of disease, basic vaccination protocols, preventative medicine, as well as the etiology, clinical signs, treatment and control of diseases of domestic animals will take place.

Prerequisite: VTEC 10001 and VTEC 10205 and VTEC 20008 and VTEC 20215.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

VTEC 20003 VETERINARY PHARMACOLOGY II 2 Credit Hours

Course includes continuation of dosage calculations, classification of medication including indications, side effects and contraindications of commonly used veterinary drugs.

Prerequisite: CHEM 10050 or CHEM 10055; and VTEC 10206 and VTEC 10205.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

VTEC 20008 CLINICAL LABORATORY II 3 Credit Hours

Continuation and application of laboratory skills from Clinical Laboratory I; hematology, serology, cytology and other laboratory skills. Lecture 2 hours, laboratory 3 hours weekly.

Prerequisite: Minimum C grade in the following courses: BSCI 10005 and CHEM 10050 (or CHEM 10055) and VTEC 10002 and VTEC 10204.

Pre/corequisite: VTEC 10001 and VTEC 10205.

Schedule Type: Laboratory, Lecture, Combined Lecture and Lab

Contact Hours: 1.7 lecture, 5 lab

Grade Mode: Standard Letter

VTEC 20009 LARGE ANIMAL NURSING 3 Credit Hours

Continuing nursing skills/techniques emphasizing large animal species: restraint, venipuncture, behavior, breeds, feedstuffs, food safety, meds, preventive care, surgical procedures, lameness. Lecture 2 hours, laboratory 3 hours weekly.

Prerequisite: BSCI 10110 and CHEM 10050 (or CHEM 10055) and VTEC 10001 and VTEC 10002 and VTEC 20008 and VTEC 10204 and VTEC 10205 and VTEC 20010.

Schedule Type: Laboratory, Lecture, Combined Lecture and Lab

Contact Hours: 1.7 lecture, 5 lab

Grade Mode: Standard Letter

VTEC 20010 IMAGING TECHNIQUES 3 Credit Hours

Principles and application of the production of X-rays, processing, radiation safety, storage, patient positioning and other imaging techniques. Lecture 2 hours, laboratory 3 hours weekly.

Prerequisite: BSCI 10005 and BSCI 10110 and CHEM 10050 (or CHEM 10055) and VTEC 10001 and VTEC 10002 and VTEC 20008 and VTEC 10204 and VTEC 10205.

Pre/corequisite: VTEC 10206.

Schedule Type: Laboratory, Lecture, Combined Lecture and Lab

Contact Hours: 1.7 lecture, 5 lab

Grade Mode: Standard Letter

VTEC 20212 SURGERY AND ANESTHESIA 3 Credit Hours

Principles and application of the use of anesthetics, patient monitoring, dental prophylaxis, pre-surgery preparation, post-surgical patient care, sterilization, surgical preparation and assisting and equipment maintenance. Lecture 2 hours, laboratory 3 hours weekly.

Prerequisite: Minimum C grade in the following courses: BSCI 10005 and BSCI 10110 and CHEM 10050 (or CHEM 10055) and VTEC 10001 and VTEC 10002 and VTEC 20008 and VTEC 10204 and VTEC 10205.

Pre/corequisite: VTEC 10206.

Schedule Type: Laboratory, Lecture, Combined Lecture and Lab

Contact Hours: 1.7 lecture, 5 lab

Grade Mode: Standard Letter

VTEC 20213 NUTRITION AND DISEASE 2 Credit Hours

Principles of the disease process, disease control and prevention of common diseases of domestic animals. Nutrition principles especially for clinical diseases will be covered. Lecture 2 hours weekly.

Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

VTEC 20215 VETERINARY OFFICE APPLICATIONS 1 Credit Hour

Overview of veterinary practice management including veterinary medical record keeping, marketing, staff responsibilities, interoffice communications and public relation techniques. Automated veterinary office processing and record-keeping. Computer hardware and software commonly found in small to mid-sized veterinary practices described along with office procedures and work flow.

Prerequisite: BSCI 10005, VTEC 10001, VTEC 10002, VTEC 10204.

Schedule Type: Laboratory

Contact Hours: 3 lab

Grade Mode: Standard Letter

VTEC 20216 LABORATORY AND EXOTIC ANIMAL MEDICINE 2 Credit Hours

Introduction to laboratory medicine and management, including basic husbandry, common diseases, and treatment protocols for various laboratory animal species, pocket pets, avian and exotic species. The student will learn scientific names and primary use of common laboratory animals and will practice restraint, sexing, appropriate methods of venipuncture, administration of medications, and anesthetic techniques.

Prerequisite: VTEC 10001, VTEC 10205, VTEC 10206, VTEC 20008, VTEC 20010, VTEC 20212.

Schedule Type: Combined Lecture and Lab

Contact Hours: 1 lecture, 3 lab

Grade Mode: Standard Letter

VTEC 20392 PRACTICUM IN VETERINARY HOSPITAL (ELR) 5 Credit Hours

(Repeatable for credit) Students gain practical experience in veterinary clinic or approved clinical site to focus on mastery of all clinical skills needed for this career.

Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

Corequisite: VTEC 20213 and VTEC 20214.

Schedule Type: Practical Experience

Contact Hours: 5 other

Grade Mode: Standard Letter

Attributes: Experiential Learning Requirement