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 it's 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 10058) 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 2012.
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