

VETC 3300 FOOD SAFETY AND HYGIENE

Discussion of the importance of a correct handling of animal-based products for human consumption. Study of the necessary measures to keep food in a perfect state of quality and hygiene, and to guarantee the protection of the snipping health of the food handler and that of the consumers.

3 credits

VETC 3302 EMERGENCY AND CRITICAL CARE

Discussion of the theoretical and practical aspects in the management of medical and trauma emergencies that commonly occur in veterinary medicine. Recognize and perform an evaluation for cardiac arrest, respiratory, neurological, gastrointestinal and musculoskeletal emergencies. Practice the principles and techniques of fluid therapy and emergency drug administration. Topics related to the application of treatment protocols for cardiorespiratory arrest, neurological conditions, gastrointestinal crises, wounds and fractures, poisonings, dystocia, prenatal care in critical patients and nutrition of critical care patients are presented. This course requires 45 hours of class and 45 hours of laboratory. Prerequisites: VETC 1100, VETC 1120, VETC 2220, VET C 2210, VETC 2240, and VETC 2250.

4 credits

VETC 3311 ANIMAL FEED AND NUTRITION

Identification of the basic principles of nutrition and feeding of both domestic animals and exotic species, their food and nutritional needs and the detection along with the solution of anomalies or diseases. Evaluation of feeding control and how it changes in the different stages of the animal's life and its physiological characteristics.

Prerequisites: VETC 1100 and VETC 1120.

3 credits

VETC 4410 HANDLING AND CARE OF EQUINE

Examination of the care, problems or diseases of horses. It includes preventive medicine, first aid, maintenance of facilities and strategies to assist the veterinarian in the surgical room and nursing. It requires 45 hours of class and 45 hours of laboratory. Prerequisites: VETC 1120, VETC 2200 and VETC 2210.

4 credits

VETC 4420 ADMINISTRATION OF VETERINARY CLINICS

Training in the most important areas related to the administration of a veterinary clinic, including the legal requirements for its operation and marketing. The critical factors that define the quality and competitiveness of the service in a veterinary clinic are identified and discussed.

3 credits

VETC 4910 VETERINARY TECHNOLOGIST PRACTICE

Two hundred and forty hours (240) of practice supervised by a veterinarian where the student will apply the knowledge, techniques and skills acquired in the program, incorporating professional ethics in daily clinical practice. This clinical experience will be on a rotating basis where they will be alternating between four different practice centers. These centers will be specific between experiences of general practice, emergency practice, farm animal practice and specialist practice. Requisites: Authorization of the department's chair or program coordinator and be in the fourth academic year.

3 credits

VETC 4955 INTEGRATION SEMINAR

Integration of the knowledge obtained in the basic courses through the oral and written presentation of a creative work, using as a primary basis, scientific articles in the student's specialty in veterinary technology. Requisites: Have approved 30 credits of the major courses in veterinary technician.

1 credit

INTER GUAYAMA

FOR ADDITIONAL INFORMATION

Mrs. Luz Ortiz

Marketing Director

luz.ortiz@guayama.inter.edu

(939)-389-2040

787-864-2222, ext. 2264, 2262

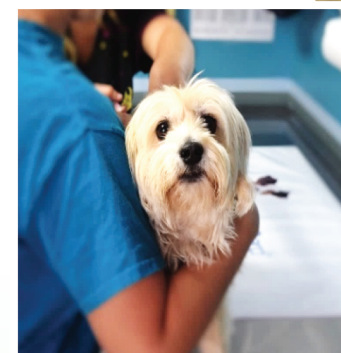
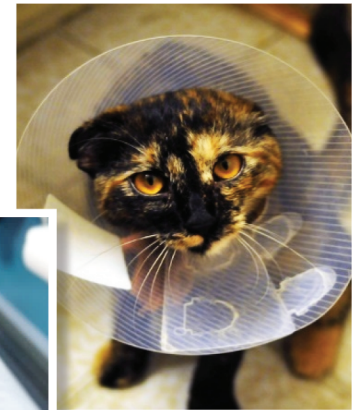
**Department of Agricultural
and Animal Sciences**

787-864-2222, ext. 2130, 2227

www.guayama.inter.ed



Bachelor in Science in Veterinary Technology



***Department of
Agricultural and
Animal Sciences***

PROGRAM DESCRIPTION

The Bachelor of Science in Veterinary Technology aspires to train professionals who can assist the doctor in veterinary medicine in procedures such as exploration, treatment and pharmacology, prevention, and diagnosis of diseases in animals. The graduate will be able to assist in other functions in the attention of domestic animals, research, and farm in the emergency areas, operating room and first aid, as well as imaging techniques and laboratory tests. The program is designed for students who wish to work as veterinary technologists in clinics, hospitals, farms, and animal research centers or anywhere else the doctor in veterinary medicine needs their assistance. The student who cannot complete the bachelor program will have the option of completing an Associate Degree in Veterinary Technician.

ACADEMIC REQUIREMENTS

General Education Requirements	42 crds.
Required Related Courses	21 crds.
Major Requirements	54 crds.
Elective Courses	3 crds.
Total credits	120 crds.

MAJOR COURSES

VETC 1100 INTRODUCTION TO VETERINARY SCIENCES

An overview of the history of veterinary sciences and the functions of a veterinary technician. Description of the different areas of a veterinary center and of the work performed in each of them.

2 credits

VETC 1120 ANIMAL ANATOMY AND PHYSIOLOGY

Description of the basic elements of animal anatomy and physiology. The terminology referring to animal anatomy and physiology is studied. The dog model is mostly used, comparing it with other animals and their systems. It requires 45 hours of conference and 30 hours of face-to-face or virtual closed laboratory.

3 credits

VETC 2200 FARM ANIMALS

Basic principles and concepts on health care, hygiene, first aid and maintenance of the farm's animal facilities. Attention and care of the farm animal before and after the emergency processes and surgical interventions. Prerequisite: VETC 1100 and VETC 1120. Requires 30 hours of lecture and 45 hours of face-to-face or virtual closed laboratory.

3 credits

VETC 2201 PARASITOLOGY AND MICROBIOLOGY

Description and identification of morphology, taxonomy, life cycles and epidemiological aspects of parasites, fungi and other microorganisms that affect animals. Requisite: VETC 1120.

3 credits

VETC 2202 CLINICAL LABORATORY

Description of the procedures for the collection, handling, conservation, and analysis of samples. Techniques commonly used in a veterinary clinical laboratory in hematology, urinalysis, chemistry, and cytology. Use of materials, equipment, and identification of alterations in the samples. Application of information for the prevention of risks, accidents, current regulations or standards and the disposal of biomedical waste. Requires 60 hours of practice. Prerequisites: VETC 1120 and VETC 2201.

2 credits.

VETC 2210 PHARMACOLOGY AND TOXICOLOGY

Examination of the action of drugs on biological systems, sources, chemical properties, and therapeutic uses. Fundamentals of posology and the identification of substances of a toxic nature for animal health.

3 credits

VETC 2213 LABORATORY ANIMALS

Study and application of knowledge and basic skills for the management, care, common diseases, and nutrition of animals used, raised, or supplied for research purposes. In addition, a broad perspective on autopsy and euthanasia issues is presented. It is instructed in the management of exotic species and small mammals and emphasis is placed on the study of diseases and medicine of laboratory animals. Prerequisite: VETC 1100, VETC 1120, VETC 2202, and VETC 2220. Requires 60 hours of clinical practice.

2 credits

VETC 2214 SEMINAR

The course seeks preparing the student to take their professional board exam. The content of the courses related to the occupation of the technician / technologist is reviewed. The responsibilities, skills, terminology, and laws that pertain to the profession are discussed. Part of the responsibilities of the veterinary technician / technologist in the administrative area of the profession will be covered. It is required to take the seminar during the last semester of the Associate in Applied Sciences in Veterinary Technician.

1 credit

VETC 2220 VETERINARY NURSING

Discussion of the processes of animal caring, vital signs, restraint techniques and techniques to administer prescription drugs. Analysis of the symptoms of diseases and how to act in emergencies. It requires 45 hours of lecture and 45 hours of laboratory. Prerequisites: VETC 1100 and 1120.

3 credits

VETC 2240 RADIOLOGY

Application of the fundamental concepts of the most used radiographic techniques and other diagnostic imaging techniques. Handling of equipment and personal protection. It requires 30 hours of lecture hours and 45 hours of laboratory. Prerequisites: VETC 1100, 1120, 2201, 2202, 2210, 2213 y 2220.

3 credits

VETC 2250 ANESTHESIA AND SURGERY

Preparation of the surgical room area and the organization of surgeries. Identification of materials, instruments and surgical equipment. Discussion and practice of anesthesia and asepsis techniques, cleaning, and sterilization of equipment. It requires 45 lecture hours and 45 laboratory hours. Prerequisites: VETC 1100, 1120, 2201, 2202, 2213, 2220 y 2210.

3 credits.

VETC 2255 COMMON DISEASES IN DOMESTIC ANIMALS

Description of the most important and common pathologies in domestic animals in veterinary medicine. Clinical symptoms are related to diseases and diagnostic methods are discussed. Provides the student with the ability to differentiate between diseases of the same anatomical system and identify common treatments for them. The course promotes the animal health and the prevention of the diseases discussed. Prerequisite: VETC 1100, VETC 1120, VETC 2201.

3 credits

VETC 2910 VETERINARY TECHNICAL PRACTICE

Experience for the acquisition, consolidation and integration of the skills and competences that correspond to the profile of the graduate's competences. 240 hours of supervised practice in the main areas of a veterinary center. Requisite: Authorization of the director or coordinator of the Program.

2 credits