EDISON STATE COLLEGE

CURRICULUM COMMITTEE
NEW PROGRAM PROPOSAL FORM

TO: **CURRICULUM COMMITTEE**
FROM: Dr. Edith Pendleton
Dean Bill Roshon
Associate Dean Dr. Mary Lewis, Health Professions
Associate Dean Dennette Foy, Professional and Tech. Studies
Associate Dean Mary Myers, Edison Online

PRESENTER: Dr. Edith Pendleton and others
DATE: 4/07/10

Check one: ☐ New certificate program ☒ New AS degree program
☐ New Bachelor's Degree

Program Description: This program provides instruction in veterinary technology management and professional development. Emphasis will be on the role, purpose, and forms of veterinary technology, basic employability skills and interviewing techniques for career development. Upon completion of this program, the graduate will be eligible to take the registry examination for AVMA certification.

Course Descriptions

EDISON STATE COLLEGE E-Learning Model Veterinary Technology AS Degree 73 credit hours	Florida Dept. of Education Curriculum Framework Veterinary Technology Health Science Education AS Degree 73 credit hours
ENC 1101 and ENC 1102 (online) English Composition I and English Composition (Technical Writing Emphasis) (6) Sequenced courses in essay writing and written communication designed to develop skill in paragraph construction and methods of presentation. The courses include practice in critical reading and analysis of texts as well as an introduction to researching and properly documenting sources using MLA format. These courses require computer proficiency and an ability to communicate electronically.	English (2.05) (2.03) (2.01)
SPC 2023 (online) Intro to Public Speaking (3) A course designed to enhance communication skills on the public speaking level, focusing on message	Recommended by the advisory committee.

composition and delivery skills as well as literal and comprehensive listing. (A modified section of this course may be developed to assist students to listen and respond to descriptions of animal ailments from livestock and pet owners, as requested by the advisory board.)	
Social Science (online) (3) CLP 1001 Pers. & Social Adjustment or PSY 2012 General Psychology	
Humanities/Philosophy (3) – Ethics preferred, as requested by the advisory board.	
Mathematics (7) STA 2023 Introductory Statistics (4) MGF 1106 Math for Liberal Arts (3) or higher	Math –graphs, charts, tables, measurements, temp, distance, capacity, mass/weight, metric units, convert time, draw conclusions. (11.0)
BSC 1010 Biological Science I (3) **BSC 1010L Biology Lab (1)** Emphasizes the development of scientific reasoning, formulation of problem statements, development of investigational techniques and data collection skills used to evaluate scientific hypotheses. Investigations using hands-on exercises, instrumental techniques common to studies of cell biology.	Knowledge of blood borne diseases. Safety and security procedures. Perform microbiology lab procedures (23.0)
ATE 1001 Introduction to Veterinary Technology (1) An introductory course for students accepted in the veterinary technology program providing the legal and ethical standards for veterinary technicians, workplace professional conduct, resources for current issues, work environment safety, zoonotic disease risks, and career opportunities.	Apply knowledge of Professional Ethics & Professionalism (29.0) Apply knowledge of hospital management and equipment standards (28.0)
ATE 1110 Animal Anatomy and Physiology (3) Teaches the basic fundamentals of anatomy and physiology of domestic animals, especially the canine, with emphasis on locating and identifying the anatomical regions and landmarks as well as functions of organ systems relevant to veterinary technology. Introduction to descriptive and topographical terms to aid the student in communicating with the professional staff. Includes aspects of physiology relating to the pathogenesis of diseases.	Perform physical exams and lab procedures (14.0) Perform urinalysis (20.0) Perform hematology procedures (21.0)
ATE 1110 L Animal Anatomy and Physiology Lab (1) This course is designed to acquaint the student with the structures and systems that make up an animal through the use of anatomic dissection. This laboratory will	Perform Necropsy Lab Procedures (24.0). Perform Cytology Lab Procedures (25.0)

correlate with ATE 1110 lecture material and will help visualize concepts.	
ATE 1311 Veterinary Office Management & Procedures (3) This course is designed to acquaint the student with mathematics and office procedures used in veterinary hospital management and veterinary computer applications.	Telephone usage (2.10) Give & follow directions (2.11) Courtesy & respect for patients (2.07). Perform Vet office procedures (12.0) Interpersonal Skills Computer Skills& Literacy (8.0) Demonstrate Employability Skills
ATE 1050 Veterinary Medical Terminology and Small Animal Breeds and Behavior (1) This course introduces students to medical and veterinary terminology as well as the language of physiology, including word roots, prefixes, suffixes and combining forms. The course includes descriptors of canine and feline behavior as well as breed identification and the basic commands used in the handling of domestic cats and dogs.	Medical terms and abbreviations (2.06)
ATE 2616 Small Animal Nursing I (3) This course focuses on the nursing care required by companion animals as a result of disease or neonatal, geriatric,pediatric and obstetrical needs.	
ATE 2633 Veterinary Surgical Nursing (3) The course will provide information on basic animal nursing skills, principles of aseptic technique, anesthesia, pain management, surgical instrumentation for a variety of procedures, and basic principles of patient preparation and monitoring.	Assist with routine surgical and obstetrical procedures (15.0) Prepare animals for surgical procedures (16.0) Assist with Anesthesia (17.0) Perform Surgical Cleanup (18.0) Perform parasitology procedures (22.0)
ATE 2654 Advanced Anesthesia, Surgery and Radiology (3) The course teaches principles of surgical assisting and anesthesia, dental procedures in animals, and basic radiography safety and techniques.	Vet Radiographic Procedures (26.0)
ATE 2615 Pharmacology & Pharmacy (3) This course develops the concepts of pharmacology essential in understanding the advanced clinical courses of the program. The technologist will learn both the scientific fundamentals and the practical applications of pharmacology. The course will explore most commonly used classes of drugs, the applications to each body system and the record keeping responsibilities involved in handling and prescribing medications, including controlled substances.	Proper handling and use of drugs (13.0)
ATE 2636 Large Animal Clinical and Nursing Skills (3) This course acquaints students with the fundamentals of large animal husbandry, herd health management, preventive medicine, animal restraint and nutrition as it	Perform large and small animal nursing techniques (19.0)

relates to the bovine, equine, porcine and caprine species. Techniques discussed in the large animal clinic and nursing skills course such as venipuncture, injections and administration of other oral medications will be reviewed and demonstrated. One laboratory session will be devoted to poultry science.	
ATE 2710 Animal Emergency Medicine (3) This course is designed to acquaint the student with fundamentals of emergency veterinary medicine, including office and record systems, veterinary emergency first aid, toxicology, as well as knowledge of assistance in specialized veterinary medical and surgical techniques relating to common emergencies.	Recognize & Respond to Emergency Situations (6.0)
ATE 1934 Veterinary Work Experience I – V (18) These clinical rotations entail supervised experience in a minimum of two work places approved by the instructor. A minimum of 64 hours in a veterinary clinic is required for each of the five levels of the course.	Demonstrate research techniques on lab animals (27.0)
Total Hours: 73	Total Hours: 73

Similar programs at other Florida community colleges/state universities:

1. Hillsborough Community College – AS, ASS
2. Miami Dade College **–** AS
3. St. Petersburg College – AS and BAS
4. Brevard Community College - AS
5. Santa Fe (in partnership with St. Petersburg College)

Describe the process by which the need for the new program was identified:

The impetus for the exploration of a Veterinary Technology Associate in Science Degree at Edison State College initially arose in December 2008.

To gather insights on the viability of a veterinary technology program, we:

- Analyzed the process and requirements of accreditation by the American Veterinary Medicine Association.
- Analyzed curriculum models for Vet Tech programs nationwide
- Spoke with Veterinary Technology program director Wendi Ford at Truckee Meadows Community College, Redfield Campus (Reno) and arranged to visit the site on March 13, 2009.
- Spoke with Dean Gerald L. Demoss at Morehead University in Kentucky about the construction of a Vet Tech facility underway there.
- Met with CVT Samantha Stock, education coordinator at Audubon Center for Birds of Prey in Maitland, toured the facility and obtained the Internship Handbook used for Vet Tech interns from Brevard Community College.

- Met with Santa Fe Teaching Zoo Director Jack A. Brown and 25+ students on site. Toured the facility.
- Met with Dr. Richard Flora, dean of Veterinary Technology programs at St. Petersburg College. Toured the facility. Obtained plans for a new building, articulation agreements with high schools, and a partnership program agreement with Valencia Community College.
- Spoke with possible supporters of a Vet Tech program, including
    1. Chad Allison, Florida Fish and Wildlife Commission
    2. Gary Lytton, Environmental Administrator, Rookery Bay National Estuarine Research Reserve & Florida Department of Environmental Protection
    3. Brenda Brooks, Executive Director, Corkscrew Regional Ecosystem Watershed
    4. Dr. Matthew Gatof, President, Caloosa Veterinary Medical Society
- Spoke with Dean Glen F. Hoffsis at the University of Florida about possible shared resources and collaborations with the University of Florida College of Veterinary Medicine.
- Arranged to address the Caloosa Veterinary Society at its quarterly meeting March 29, 2009.

According to the latest statistics available from the American Veterinary Medicine Association, there are 150 accredited Veterinary Technology programs in the country, with 18 of these offering 4-year degrees. Nine, including St. Petersburg College, offer distance learning programs.

Florida's DOE Curriculum Framework defines veterinary technicians and veterinary technologists as animal caretakers trained to assist veterinarians in the medical care of animals. The program should meet the requirements of the Committee on Veterinary Technician Education and Activities (CVTEA).

The content includes, but is not limited to, animal office procedure; animal pharmacy and pharmacology; animal examination room/area; animal surgical preparation and assisting; large and small animal nursing; laboratory animal procedures; animal radiology, and employability skills. The curriculum covers computer literacy, applied mathematics, biological science, communications, microbiology, and liberal arts.

Applicants for the certification examination given by the Florida Veterinary Medical Association must be graduates of approved two-year programs. Program approval is defined as being approved by the Committee on Veterinary Technician Education and Activities (CVTEA). In addition to standard accreditation requirements, the American Veterinary Medicine Association requires the following program-specific conditions:

- The dean or academic officer of the program must be a veterinarian.
- There must be sufficient administrative staff.

- Clinical services, field services and teaching hospitals must function as instructional resources.
- All aspects of the physical facilities must provide an appropriate learning environment.
- The program must maintain or be formally affiliated with a full-service acceptable teaching hospital(s) for the welfare and treatment of animals.
- Facilities for the housing of animals used for teaching and research shall be sufficient in number, properly constructed, and maintained in a manner consistent with accepted animal welfare standards. Adequate teaching, laboratory, research, and clinical equipment must be available for examination, diagnosis, and treatment of all animals used by the college. Safety of personnel and animals must be assured.
- Normal and diseased animals of various domestic and exotic species must be available for instructional purposes, either as clinical patients or provided by the institution.
- Experience can include exposure to clinical education at off-campus sites, provided the college has direct responsibility for carefully planning, closely supervising, and regularly monitoring such clinical experiences.
- Medical records must be comprehensive and maintained in an effective retrieval system to efficiently support the teaching, research, and service programs of the college.

Laboratory activities include diagnostic techniques and methods utilized in hematology, blood coagulation, blood chemistry, liver-kidney-pancreatic function tests, body fluid examinations and parasitology.

The required curriculum compliments health programs currently offered at Edison State. The College could capitalize on existing laboratory equipment used for radiography, clinical pathology, microbiology, diagnostic imaging and computer applications for health technicians.

The degree prepares students for a broad array of employment opportunities in large and small animal care, and lends itself to ancillary occupational training in equine breeding and physical therapy, wildlife research and/or rehabilitation, marine mammal and avian research, care and handling of laboratory animals and animal husbandry.

Project average enrollment for core courses: 15 students to be admitted annually

Describe how this projection was determined: The Workforce Development Board and local veterinarians, including the Caloosa Veterinary Medical Association, have been contacted to survey the expected need in the community. The prerequisite courses are similar to other healthcare programs. There may be

many students interested in Veterinary Technology as a healthcare career choice. The need in the nation is expected to increase over the next ten years.

List personnel resources required for implementation in addition to existing resources. Indicate in the box the number of each type of position required:

Faculty position(s)	1 full time	6 adjunct	Must have Masters or higher	
Staff position(s)	None			
(list title)	full time		part time	
	full time		part time	

Total annual expenses for new positions: $60,000

List annual amount required for educational materials/supplies or other operating expenses for implementation: $17,650.

Identify the funding source to be used for personnel and operating expenses: Tuition and FTE. Possible special appropriation to fund signature program at the La Belle Center.

JUSTIFICATION FOR CURRICULUM ACTION, OTHER EXPLANATORY INFORMATION:

TERM IN WHICH PROPOSED ACTION WILL TAKE EFFECT: Fall 2010
For any term other than fall of the academic year following submission, approval of the Vice President of Academic and Student Affairs is required.)

_____
(Vice President of Student and Academic Affairs signature)

LEARNING OUTCOMES ASSOCIATE: _____ **DATE:** _____

DEPARTMENT CHAIR ENDORSEMENT: _____ **DATE:** _____

ACADEMIC DEAN'S ENDORSEMENT: _____ DATE: _____

After review and signing this proposal, the DEPARTMENT CHAIR will forward the proposal to the DISTRICT DEAN for final signature. The DISTRICT DEAN will then return the proposal to the DEPARTMENT CHAIR.

DISTRICT DEAN'S ENDORSEMENT: _____ DATE: _____

The DEPARTMENT CHAIR will process the proposal into a continuous document with any other proposals from his/her department being submitted for review by the Curriculum Committee and forward the document to the CURRICULUM COMMITTEE CHAIRPERSON by the Friday before the next scheduled Curriculum Committee meeting.

NOTE: All new courses that are part of a new degree program must be approved separately and individually using the New Course Proposal Form. This proposal must be accompanied by the New Course Proposal Form for each new core and elective course that comprise the degree program along with a common course syllabus for each course.