**Table 2. CIP Outcomes 1 & 2 (FOCUS ON AT LEAST 1)**

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| 1. **Outcome #5**   Determine and perform nursing care and dental care for veterinary patients. (Formerly: The student will demonstrate knowledge of the nursing care of animals and have a thorough understanding of comprehensive dental care for veterinary patients) | |
| 1. **Measure (Outcome #5)**   Scoring of the final lab practical exam in VTHT 2439 Veterinary Nursing Care course. | 1. **Target (Outcome #5)**   85% of students score 70% or higher on the exam.  (Formerly: Expected success level is set at 80% of students scoring 75% or higher on the final laboratory practicum.) |
| 1. **Action Plan (Outcome #5)**   Students will be prepared for a laboratory final exam in VTHT 2439-Veterinary Nursing Care that covers general anesthesia, dentistry, bandaging, and blood transfusion medicine.  To prepare for this exam, students will have two lab periods in which blood transfusion medicine is practiced. Students will draw blood from live cats and dogs and perform both cross-matching and blood typing. Students will be graded on their ability to properly perform venipuncture and produce accurate results to determine their patient’s blood type and compatibility with a blood donor.  Students will also have two bandaging labs; during the first lab students will place bandages and splints on models and during the second lab students will bandage live animals. Students will be graded on their ability to perform proper bandaging techniques of the limbs, head, and trunk.  Students will be also assigned case scenarios based around a live animal patient presenting for dental prophylaxis, which requires general anesthesia. The instructor(s) will demonstrate all steps required to properly anesthetize the patient and perform Comprehensive Oral Health Assessment and Treatment (COHAT), using manual techniques and machines. Students will then be assigned a minimum of one, but ideally two, live animal patients to anesthetize and perform COHAT.  Anesthesia: students will be graded on their ability to properly obtain owner consent, compile a detailed patient history, accurate physical exam findings (weight, temperature, pulse, respiratory rate), collect accurate diagnostic data (complete blood count, blood chemistry, urinalysis), and verbally present all findings to an overseeing veterinarian or licensed veterinary technician. Students will also be graded on their ability to administer anesthetic agents, perform IV catheterization, provide fluid therapy, monitor vitals, recover the live patient, and properly discuss discharge instructions with the animal’s owner.  Dentistry: on an alternate animal, students will be assigned a live patient and will be graded on their ability to perform a detailed oral examination, use manual techniques and machines to perform COHAT, properly complete dentistry medical records, and demonstrate client education regarding veterinary oral home care.  Students will practice these skills over four to eight laboratory sessions prior to the practical exam.  The exam will cover the following topics: identification of dental instruments used for COHAT, anatomy of the oral cavity, interpretation of medical records, anesthetic agents, use of anesthetic monitoring equipment and interpretation of patient vitals (normal vs. abnormal), interpretation of physical exam and diagnostic test results, identification of supplies used in intravenous catheterization, venipuncture and fluid therapy, identification of bandaging equipment and materials, and interpretation of blood transfusion diagnostic results. | |
| 1. **Results Summary (Outcome #5)**   Fourteen students have completed VTHT 2439 over the past two academic years and 78.6% exceeded a 70% score on the final lab practical. | |
| 1. **Findings (Outcome #5)**   Unmet: With our small class sizes, it’s no surprise that this goal was unmet. It only took three students scoring below 70% to drop our results under the threshold. The program is still very successful, as these students took and passed the national board examination three months later. | |
| 1. **Implementation of Findings**   How will we use or have used these findings and analysis to make improvements?  After a team discussion, we decided that the reason for the low grades were most likely to be a lack of motivation of students in their final semester. The instructor for this course provides a comprehensive and thorough instruction of the materials, and as a capstone course, the repetition provided should result in the exam being reasonable to pass at 70%. We decided to approach the students with motivational support moving forward. We plan to start meetings between the students and our Workforce Coach to keep them invested in the weeks between Spring Break and Graduation. We also discussed increasing the number of live animal laboratories and will investigate if that is feasible within our budget. | |