Curriculum Details

Proposed By

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Course Record ID

759

Entry Type

Modify (draft)

Date Created

September 25, 2012

Notes and Special Changes

Stakeholders Consulted

1. Justification

Course content does not require 4 credits.

2. Course Alpha

ANSC

3. Course Number

266

4. Course Title (long)

Veterinary Clinical Practices & Internship II

5. Course Title Short


Vet Clin Prac & Internship II

6. Course Credits
3

7. Course Credit Upper Range
0

Repeatable
Will default to 98 (this is how often someone can sign up for the course (not how many times they can apply it to a degree)

8. Course Description
A continuation of ANSC 190, this course provides veterinary technology students with additional practical experience in a clinical setting. Topics covered include: advanced sample collection & handling techniques, dentistry, administration of medications, anesthesiology & surgical assisting, and advanced nursing techniques. Emphasis is placed on integrating classroom learning with practical work experience.

9. Course Pre-Requisites
Grade of "C" or better in ANSC 190.

10. Course Co-Requisites

11. Course Recommended Preparation

12. Contact Hours (lecture, lab, lecture/lab)
9 hours internship.

13. Department
Natural Sciences

14. Cross-Listing
15. Course Content

Concepts or Topics ♦ Dental Exam & Dental Prophylaxis ♦ Autoclave use and maintenance. ♦ Aseptic technique. ♦ Administration of anesthesia ♦ Anesthetic monitoring ♦ Care and use of surgical instruments. ♦ Surgical assisting. ♦ IV Catheter Placement ♦ IV Fluid Therapy ♦ X-ray and ultrasound procedures ♦ Client Education ♦ Wound Care ♦ Critical Care ♦ Emergency Care ♦ Biopsy Procedures ♦ Fecal Flotation ♦ Fecal Centrifugation ♦ Advanced Parasitological Techniques

16. Course Competencies

ANSC 266 Course Task Checklist Instructor Initials 1. OFFICE AND HOSPITAL PROCEDURES, CLIENT RELATIONS, and COMMUNICATION Skill: Participate in facility management utilizing traditional and electronic media and appropriate veterinary medical terminology and abbreviations. Tasks: Schedule appointments, admit, discharge and triage according to client, patient and facility needs through phone and in-person contact. Recognize and respond to veterinary medical emergencies be able to utilize common management software programs. Perform basic filing of medical records, radiographs, lab reports, etc. Create and maintain all appropriate facility records and logs in compliance with regulatory guidelines (e.g., radiography, surgery, anesthesia, laboratory, controlled substance). Manage inventory control. Recognize roles of appropriate regulatory agencies. Maintain appropriate disposal protocols for hazardous materials. Establish and maintain appropriate sanitation and nosocomial protocols for a veterinary facility, including patient and laboratory area. Handle routine financial transactions. Decision-making abilities: Taking into account the characteristics of the facility, patients and clients, the veterinary technician will effectively contribute to the professional and efficient operation of the facility in order to provide maximum benefits to clients, patients, and the facility. Communication Skill: Communicate in a professional manner in all formats - written, oral, non-verbal, and electronic. Tasks: Apply understanding of interpersonal skills and team dynamics in all aspects of team dynamics. Utilize appropriate interpersonal and public relations skills. Demonstrate telephone etiquette. Recognize the legality of the veterinary-client-patient relationship. Develop and provide client education in a clear and accurate manner at a level the client understands (i.e., oral and written form, including educational handouts). Apply crisis intervention/grief management skills with clients. Decision-making abilities: Taking into account the patient, client, staff and circumstances, the veterinary technician will effectively and accurately acquire and convey information utilizing an appropriate communication mode. Skill: Follow and uphold applicable laws and the veterinary technology profession's ethical codes to provide high quality care to patients. Tasks: Understand and observe legal boundaries of veterinary health care team members. Interact professionally with clients and fellow staff members. Demonstrate a commitment to high quality patient care. Respect and protect the confidentiality of client and patient information. Decision-making abilities: Given knowledge of legal limitations and applicable ethical standards, the veterinary technician will carry out her/his duties within appropriate legal boundaries and maintain high ethical standards to provide high quality service to clients, patients, employers and the veterinary profession. 2. PHARMACY and
PHARMACOLOGY Administration Skill: Safely and effectively administer prescribed drugs to patients. Tasks: Prepare medications; label and package dispensed drugs correctly* Read and follow veterinarian’s pharmacy orders* Recognize groups of drugs, their mechanisms, and clinically relevant side effects* Recognize the safe and effective manner in which vaccines must be administered; recognize and explain common side effects* Accurately perform appropriate calculations; use weights and measures correctly* Safely and effectively administer drugs by common parenteral and enteral routes; be able to explain appropriate routes and methods and when used* Monitor therapeutic responses* Demonstrate compliance with all federal regulatory guidelines for drug purchase, storage, administration, withdrawal, dispensing, disposal, and inventory control (e.g., biologics and therapeutic agents, pesticides, and hazardous wastes)* Decision-making abilities: Given the characteristics of the patient, the instructions of the veterinarian and the medication to be used, the veterinary technician will calculate the correct amount of medication in the prescribed form and administer it by the prescribed route to maximize therapeutic benefits and minimize the potential for adverse effects. The veterinary technician shall also be able to differentiate between abnormal and normal responses to medication. Dispensing Skill: Accurately dispense and explain prescribed drugs to clients. Tasks: Given a drug order, properly prepare medications for dispensing, including performing accurate calculations* Demonstrate compliance with regulations governing prescription drugs versus over-the-counter drugs* Demonstrate understanding of regulations governing maintenance of controlled substances log book* Demonstrate compliance with all federal regulatory guidelines for drug purchase, storage, administration, withdrawal, dispensing, disposal, and inventory control (e.g., biologics and therapeutic agents, pesticides, and hazardous wastes)* Relay drug information to clients (e.g., handling, storage, administration, side-effects, drug interactions, safety, reasons for use of drug)* Decision-making abilities: Given the characteristics of the patient, the instructions of the veterinarian and the medication to be used, the veterinary technician will (1) accurately calculate and dispense the correct form and dose of medication and (2) communicate necessary client information in order to maximize safety, compliance with prescribed therapy and successful treatment of the patient. The veterinary technician should also be proficient at performing inventory control procedures. 3. NURSING Patient assessment Skill: Demonstrate and perform patient assessment techniques in a variety of animal species. Tasks: Demonstrate effective and appropriate restraint techniques for various animal species: properly restrain dogs and cats for procedures* encage and remove small animals from cages* apply dog muzzle safely* apply Elizabethan collar* use restraint pole and other restraint aids*[GROUP] restrain birds* restrain pocket pets and exotics Obtain a thorough patient history* Demonstrate the ability to obtain objective patient data: temperature (dog, cat, horse, cow)* pulse (dog, cat, horse, cow)* respiration (dog, cat, horse, cow)* auscultate heart/lungs* (dog, cat, horse, cow) assess hydration status Properly collect diagnostic specimens for analysis (ex: urine, blood, feces, specimens for cytology)* Perform venipuncture: cephalic (dog, cat)* jugular (dog, cat, horse, ruminant)* saphenous (dog)* medial femoral (dog, cat) catheterize male* and female dogs[GROUP] catheterize male cat*[GROUP] perform cystocentesis (small animal)*[GROUP] Prepare diagnostic specimens for shipment* Decision-making abilities: Given the characteristics of the patient, the veterinary technician will safely
and efficiently obtain subjective and objective patient data that will allow accurate evaluation of the patient's physical status with minimum stress and maximum safety. Patient care Skill: Understand and demonstrate husbandry, nutrition, therapeutic and dentistry techniques appropriate to various animal species. Tasks: Husbandry trim nails (dogs, cats, birds, exotic/special species)* Environmental conditions: implement sanitation procedures for animal holding and housing areas* Decision-making abilities: Given the characteristics of the patient, the veterinary technician will implement appropriate husbandry techniques to enhance wellness and reduce risk of disease, injury and stress. Tasks: Nutrition Develop and communicate hospital nutrition protocols* Decision-making abilities: Given the characteristics of the patient, the veterinary technician will understand appropriate and inappropriate dietary components for various life stages and therapeutic regimens (e.g., therapeutic foods) in order to promote optimal health, enhance recovery and manage chronic disease conditions. The veterinary technician will also explain nutritional recommendations to clients and reinforce owner compliance. Tasks: Therapeutics Administer parenteral medications: subcutaneous* intramuscular* intradermal intravenous* Administer enteral medications: gastric intubation (small animal)* [GROUP] hand pilling (dog, cat)* Administer topical medications (including eye meds)* Perform ocular diagnostic tests (including tonometry, fluorescein staining and Schirmer tear test)* Administer enemas*[GROUP] Fluid therapy: administer subcutaneous fluids* place intravenous catheters (cephalic*, saphenous*, jugular) maintain and care for catheters* determine/maintain fluid infusion rate* monitor patient hydration status* develop familiarity with fluid delivery systems* Apply and remove bandages and splints* Remove casts Develop understanding of wound management and abscess care* explain care of recumbent patient* Perform critical care: maintain chest, tracheostomy, esophagostomy tubes collect and crossmatch blood for transfusion* blood typing give blood transfusions (autotransfusions may be considered) Apply established emergency protocols: apply emergency splints and bandages* Decision-making abilities: Given the directions of the veterinarian and the characteristics of the patient, the veterinary technician will carry out appropriate therapeutic techniques in order to achieve maximum health benefits for the patient. Tasks: Dentistry Perform routine dental prophylaxis (manual and machine)* Understand client education regarding home care* Perform routine dental radiographic imaging techniques Decision-making abilities: Given the characteristics of the patient, the veterinary technician will recognize a patient's dental health status and perform techniques, as prescribed by a veterinarian, appropriate to the species and its condition in order to promote and maintain dental health. 4. ANESTHESIA Patient management Skill: Safely and effectively manage patients in all phases of anesthetic procedures. Tasks: Calculate dosages of appropriate anesthetic-related drugs* Administer anesthetic-related drugs by injection, mask, induction chamber or endotracheal tube* Place endotracheal tubes in patients when appropriate* Utilize clinical signs and appropriate equipment to monitor patient status in all stages of anesthetic procedures (e.g., esophageal stethoscope, Doppler, pulse oximeter)* Evaluate patient and implement and evaluate pain management protocols* Recognize and respond appropriately to patients in compromised states* Perform appropriate resuscitation procedures as needed (e.g., calculate and administer appropriate anesthetic antagonists and emergency drugs as directed)* Complete controlled substance log* (does not need to be official controlled substance log; mock logs may
be utilized) Decision-making abilities: Given the characteristics of the anesthetic patient and the procedure being performed, the veterinary technician will work with the veterinarian to: 1. Assess the patient's risk status and determine appropriate anesthetic and perianesthetic protocols to provide effective pain management and maximum anesthetic safety and effectiveness. 2. Choose and utilize appropriate techniques and equipment to accurately and effectively monitor the patient's ongoing status before, during and after anesthesia to provide for adequate anesthesia, analgesia and a safe recovery. Equipment/facility management Skill: Safely and effectively select, utilize and maintain anesthetic delivery and monitoring instruments and equipment. Tasks: Maintain and operate anesthetic delivery and monitoring equipment: pulse oximeter* esophageal stethoscope* electrocardiograph (e.g., recognize abnormal rhythms/audible sounds, properly apply leads)* anesthetic machines, including rebreathing systems, non-rebreathing systems induction chambers and masks* endotracheal tubes* resuscitation bag* scavenging systems* oxygen sources* respiratory monitors* blood pressure monitoring devices* laryngoscopes* Decision-making abilities: 1. Given the characteristics of the anesthetic instruments and equipment being used, the veterinary technician will recognize and respond appropriately to equipment malfunctions or inappropriate equipment setup in order to ensure proper function and provide maximum benefit to the patient. 2. Given the requirements of the anesthetic protocol, the veterinary technician will select, evaluate and adjust equipment to ensure proper function and provide maximum benefit to the patient. 5. SURGICAL NURSING It is essential that technicians have knowledge of routine surgical procedures and related equipment, including surgeries in these categories: ovariohysterectomy - dogs and cats* cesarean section - all common species* orthopedic procedures* orchiectomy - all common species* tail docking* onychectomy - dogs and cats* laparotomies - all common species* dystocias in common species* prolapsed organs - common types, species, and incidence* Students must have participated in surgeries in these categories: ovariohysterectomy - dog*, cat* orchiectomy - dog*, cat* and other common species Patient management Skill: Understand and integrate all aspects of patient management for common surgical procedures in a variety of animal species. Task: Properly identify patients and surgical procedures* Decision-making abilities: Given the characteristics of the patient and the surgical procedure to be performed, the veterinary technician will use medical records and patient identification methods to assure that the patient and scheduled procedures are correct. Patient assessment organize medical records/consent forms* review pre-operative evaluation* evaluate current patient status* coordinate anesthesia* Decision-making abilities: Given the characteristics of the patient and the surgical procedure to be performed, the veterinary technician will obtain the patient's vital signs, note any specific physical abnormalities, ensure pre-surgical tests have been completed and report the patient assessment to the veterinarian. Prepare surgical site using appropriate aseptic techniques* Decision-making abilities: Given the characteristics of the patient and the surgical procedure to be performed, the veterinary technician will identify the appropriate area of hair to be removed and select appropriate methods to reduce microbial flora on the skin in the area of surgical site in order to decrease the chance of surgical wound contamination. Task: Position patient for common procedures* Decision-making abilities: Given the characteristics of the patient and the surgical procedure to be performed, the veterinary technician will position the patient...
appropriately to provide maximum convenience for the surgeon and maximum safety and benefit for the patient. Task: Provide surgical assistance: maintain proper operating room conduct and asepsis* assist with care of exposed tissues and organs* properly pass instruments and supplies* operate and maintain suction and cautery machines* understand the principles of operation and maintenance of fiber optic equipment* keep operative records* Decision-making abilities: Given the characteristics of the patient and the surgical procedure to be performed, the veterinary technician will understand and utilize appropriate aseptic techniques to assist operative personnel in order to provide maximum safety and benefit to the patient. Task: Coordinate pain management with the anesthesia/surgical team* Decision-making abilities: Given the characteristics of the patient and the surgical procedure to be performed, the veterinary technician will assure that anesthetic and post-operative pain management protocols are appropriate to provide maximum safety and benefit to the patient. Provide post-operative care: pain management* fluid therapy* adequate nutrition* wound management* bandaging* discharge instructions* suture removal* Decision-making abilities: Given the characteristics of the patient and the surgical procedure to be performed, the veterinary technician will understand and administer the appropriate methods of post-operative care to assure maximum safety and benefit to the patient. Procedural management Skill: Understand and provide the appropriate instruments, supplies and environment to maintain asepsis during surgical procedures. Tasks: Prepare surgical instruments and supplies* Prepare gowns, masks, gloves, and drapes* Operate and maintain autoclaves* Sterilize instruments and supplies using appropriate methods* Identify and know proper use for instruments* Identify common suture materials, types, and sizes* Provide operating room sanitation and care* Maintain proper operating room conduct and asepsis* Perform post-surgical clean-up (e.g., equipment, instruments, room, proper disposal of hazardous medical waste)* Decision-making abilities: Given the characteristics of the patient and the surgical procedure to be performed, the veterinary technician will properly select, wrap and sterilize appropriate instruments and supplies and prepare and maintain the surgical environment to ensure maximum safety and benefit to the patient. 6. LABORATORY PROCEDURES Specimen management Skill: Properly package, handle and store specimens for laboratory analysis. Tasks: Prepare specimens for diagnostic analysis* Select and maintain laboratory equipment* Implement quality control measures*[GROUP] Ensure safety of patients, clients and staff* Decision-making abilities: 1. Given the characteristics of the patient and the requested analysis, the veterinary technician will properly prepare, handle and submit appropriate samples for diagnostic analysis in order to ensure maximum accuracy of results. 2. Given the characteristics of laboratory instruments and equipment, the veterinary technician will determine proper maintenance and quality control procedures necessary to ensure accurate results. Specimen analysis Skill: Properly carry out analysis of laboratory specimens. Tasks: Perform serologic test (ELISA, slide/card agglutinations)* Perform diagnostics procedures for parasites: Antigen kit*, direct*, filter, Knotts floatation solution preparation fecal floatations* fecal sedimentation* direct smears* centrifugation with flotation* adhesive tape retrieval of pinworm ova Perform microbiologic procedures/evaluations: collect representative samples* perform common biochemical tests*[GROUP] perform staining procedures* culture and identify common dermatophytes* Perform cytologic evaluation assist in collecting, preparing
and evaluating transudate, exudate and cytologic specimens (joint, cerebrospinal, airway, body cavity) perform fine needle tissue aspirates and impression smear preparation (differentiate benign vs. malignant) prepare and stain bone marrow specimens collect, prepare, and evaluate ear cytology* collect, prepare, and evaluate canine vaginal smears*[GROUP] evaluate semen understand timing and types of pregnancy testing assist with artificial insemination handle disposal of dead animals perform humane euthanasia procedures Decision-making abilities: 1. Given the characteristics of the patient, the specimen submitted and the results of the analysis, the veterinary technician will be able to recognize accurate vs. erroneous results in order to provide maximum diagnostic benefit. 2. Given the laboratory specimen collected and characteristics of the patient, the veterinary technician will determine appropriate methodology and carry out analytical procedures necessary to provide accurate and precise diagnostic information. 3. Having determined the accuracy of analytical results, the veterinary technician will work with the veterinarian to determine if a need exists for additional laboratory tests that will provide useful diagnostic information. 9. AVIAN, EXOTIC, SMALL MAMMALS & FISH PROCEDURES Skill: Understand the approach to providing safe and effective care for birds, reptiles, amphibians, guinea pigs, hamsters, gerbils, and ferrets. Tasks: Recognize, understand, and perform restraint techniques of birds*, reptiles, amphibians, rabbits and ferrets Understand unique husbandry issues for each species (birds, reptiles, amphibians, guinea pigs, hamsters, gerbils, and ferrets) and provide client education*: nutritional needs/diet watering caging (temperature, humidity, light) understand reproduction basic grooming (beak, wing, and nail clipping) appropriate transportation methods Demonstrate the ability to obtain objective data: birds*, reptiles, amphibians, and ferrets Perform injections using appropriate sites subcutaneous intramuscular intradermal intravenous Perform oral dosing Administer drugs or medicaments using appropriate sites and routes Understand appropriate sites for catheter placement Understand tube feeding in birds Perform laboratory procedures Anesthetize avian and exotic animals Recognize normal and abnormal behavior patterns Explain inadvisability of keeping wildlife as pets Collect blood samples Decision-making abilities: Given the unique requirements of these species, the veterinary technician will safely obtain subjective and objective data that will allow evaluation of the patient. The veterinary technician will be able to: 1) identify husbandry issues, 2) discern appropriate from inappropriate nutritional support, and 3) recognize normal from abnormal behavior patterns.

17. Assessments, Tasks, and Grading

ASSESSMENT TASKS AND GRADING COURSE TASK CHECKLIST (500 points): The student is required to demonstrate proficiency with each of the required skills (designated with a "*" ) on the course task checklist (CTC). Each skill must be signed off by the student's veterinary preceptor (DVM, RVT, LVT or CVT) or course instructor. PRACTICUM (500 points total). The student will take an end-of-term practicum to demonstrate proficiency in key skills learned during the internship. The exact topics covered by practicum will depend on the internship facilities and species available. A study sheet will be given out two weeks prior to the practicum. The exam will be administered by the internship supervisor and may be videotaped for review by faculty-of-record. METHOD OF GRADING The assignment of points will be
according to the following: Course Task Checklist: 500 points Practicum: 500 points
TOTAL 1,000 points

GRADING SCALE
Total Points Percentage Points Grade
895-1000 90-100 A
795-894 80-89 B
695-794 70-79 C
595-694 60-69 D
<595 0-59 F

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Grading Options
Will be set to Banner default

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18. Auxiliary Materials and Content

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19. Additional Activities outside of class and class time

In addition to attending weekly laboratories/class meetings, students enrolled in ANSC 266 are expected to intern at their assigned clinic location for a minimum of 120 hours (8 hrs/week x 15 weeks). It is the student’s responsibility to arrange a suitable work schedule with their veterinary preceptor(s).

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20. Special Costs connected to the course

Students will need to provide proof of health insurance and will need to procure a liability policy ($30) through the Veterinary Technology Program or their veterinary preceptor.

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21. What are the Student Learning Outcomes?

1) Safely and effectively administer anesthesia and provide surgical assistance.
2) Accurately dispense & administer medications to patients by a variety of routes (IV, PO, SQ) and explain prescribed medications to clients.
3) Provide advanced nursing care including bandaging, wound care, critical- and emergency patient care.
4) Perform routine dental prophylaxis.
5) Perform advanced sample-collection and handling techniques.
6) Provide client education in a variety of areas.

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22. Connection between the Course SLOs and the College's General Education Outcomes

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23. How does the proposal connect to the college's strategic plan?

This course is part of the AS in Veterinary Technology and will allow students to obtain training in STEM and employment in private practice.

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24. Describe the staff that will be needed

This class will be taught by a veterinary technician or licensed veterinarian. Already on staff.
25. Describe the facilities that will be needed, including special rooms

Class meetings will be in Iolani 116. All other work will take place at the internship location.

26. Describe any other resources that will be needed

All the necessary equipment and supplies have already been purchased with Perkins funding.

27. How will the staff, facilities, and other resources for the course be secured?

Adjunct veterinary technician and veterinarian faculty are already on staff.

28. Certificates

29. Connection to the AA degree

30. Maximum Credits Towards an AA Degree

0

31. List any similar classes taught at outside of the UH system

Purdue: VM 250 Clinic Rotation 7 VM 255 Veterinary Technology Externship 2 Pierce College: AG 480 -- Clinical Experience for Veterinary Technicians -- 3 units

32. List any similar classes taught at campuses in the UH System.

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33. How, if at all, is the course intended to count in lieu of a course taught at a four-year campus.

It is not intended to count for credit for any classes taught at a four-year campus.

34. How, if at all, is the course similar to upper-division courses in the UH System.

Not similar.
35. How does the course articulate with four-year programs (Gen Ed)?

36. List any articulations between this course and any four-year program.
Not appropriate for articulation.

End of Proposal