**OSU College of Veterinary Medicine DVM Program Outcomes**

**[Based on the 9 competencies of the Council of Education (COE)]**

**1. Comprehensive patient diagnosis (problem solving skills), appropriate use of clinical laboratory testing, and record management**

*Learning objectives:*

* Students will be able to obtain a medical history and perform a complete physical examination on the common domestic species.
* Students will be able to recognize abnormal physical findings on the examination.
* Students will be able to create and prioritize a list of medical problems for each case.
* Students will be able to compile a list of differential diagnoses for medical problems.
* Students will be able to formulate a diagnostic plan.
* Students will be able to select the appropriate laboratory test needed to make a diagnosis and interpret the meaning of the results of these tests.
* Students will differentiate between tests that are confirmatory and tests that rule out a disease.
* Students will compile complete medical records for each case using the SOAP approach to case management.

**2. Comprehensive treatment planning including patient referral when indicated.**

*Learning objectives:*

* Students will be able to formulate a treatment plan for each case.
* Students will outline the options available for treating each case and compare the advantages and disadvantages of each. They will be able to justify the recommended treatment.
* Students will be able to list possible complications in the treatment of different types of clinical cases.
* Students will understand the limitations of practitioners and practice facilities and be able to determine if referral is necessary.
* Students will compare the capabilities of referral practices with the needs of each patient.

**3. Anesthesia, pain management and patient welfare**

*Learning objectives:*

* Students will understand the physiologic mechanisms responsible for generating a painful sensation.
* Students will recognize pain in animals.
* Students will demonstrate adjunctive treatments for controlling pain.
* Students will design pain protocols for clinical situations.
* Students will understand the pharmaceutical principles of analgesics used in veterinary medicine.
* Students will demonstrate administration of general anesthesia to animal patients of various species.
* Students will demonstrate the use of endotracheal tubes and intravenous catheters.
* Students will interpret the physiological data used to assess the depth of anesthesia.
* Students will be proficient at operating anesthesia machines and monitoring devices.
* Students will recognize alterations to anesthetic administration caused by co-existing morbid disease.
* Students will discuss the selection of proper anesthetic methods for each case.
* Students will recognize and manage anesthetic emergencies and post-anesthetic complications.
* Students will be able to perform commonly-used regional nerve blocks.
* Students will understand the principles of patient welfare

**4. Basic surgery skills, experience, and case management**

*Learning objectives:*

* Students will demonstrate orthopedic and neurologic examinations.
* Students will recognize the surgical conditions that need to be referred to a specialty practice.
* Students will perform minor surgeries and ovariohysterectomies and castrations on dogs and cats and castrations on food animals.
* Students will describe and demonstrate surgical principles including sterile technique, surgical biology, appropriate management and prevention of infection, collection of appropriate biopsies, and appropriate pre and postoperative care.
* Students will show competence in basic operative skills and tissue handling.
* Students will outline proper post-operative care for a variety of surgical conditions.
* Students will describe and discuss the concepts of informed consent.
* Students will understand how to recognize, prevent, and manage post-operative complications.

**5. Basic medicine skills, experience, and case management**

*Learning objectives*

* Students will be able to create and prioritize a list of medical problems for the common domestic species.
* Students will be able to discuss/rationalize a diagnostic plan with the clinician and owner.
* Students will be able to collect the appropriate diagnostic samples and demonstrate common diagnostic procedures used by entry level veterinarians.
* Students will be able to interpret the results of these diagnostic tests.
* Students will be able to discuss treatment options with the clinician and the owner.
* Students will implement supportive and therapeutic care for client animals.

**6. Emergency and intensive care case management**

*Learning objectives*

* Students will be able to recognize emergency situations.
* Students will participate in triage of multiple critical patients.
* Students will understand and demonstrate the use of intensive care monitoring tools.
* Students will discuss the therapeutic options for various emergency or critical care cases.
* Students will implement the necessary critical care procedures.
* Students will choose the proper sequence in caring for a critically ill patient. Students will be able to calculate fluid therapy needs, insert intravenous catheters, administer oxygen, support fractures, and in other ways care for the critically ill emergency patient.
* Students will be able to effectively integrate clinical skills and knowledge to achieve stabilization of emergency/critically ill patients.

**7. Health promotion, disease prevention, biosecurity, zoonosis and food safety**

*Learning objectives*

* Students will describe methods of preventing common diseases including appropriate protocols used in isolation facilities.
* Field service students will practice biosecurity when entering and leaving a farm.
* Students will understand the ways in which veterinary medicine affects human health.
* Students will describe the public health responsibilities of veterinarians.
* Students will describe the common food-borne illnesses of humans, and how they can be prevented.

**8. Client communications and ethical conduct.**

*Learning Objectives*

* Students will effectively communicate with owners and clinicians.
* Students will report on the follow-up of cases after discharge.
* Students will answer mock questions from animal owner role players.
* Students will assist in discharging cases from the teaching hospital.
* Students will participate in mock interviews.
* Students will recognize ethical issues in veterinary medicine and apply ethical decision-making skills.
* Students will discuss ethical issues with the senior clinician and at hospital rounds.

**9. Critical analysis of new information and research findings relevant to veterinary medicine**

*Learning objectives*

* Students will be able to critique scientific articles in veterinary journals.
* Students will attend research seminars.
* Students will present a senior paper on a topic pertinent to veterinary medicine.
* Students will discuss at rounds the development of new information and techniques for veterinary medicine, especially when related to a case in their care.