Miami Dade College

Course Description

ATE 1110L | Animal Anatomy & Physiology Laboratory **| 3 credits**

This course will complete the coverage and understanding of the anatomical and physiological relationships required for further development as a veterinary technician. When possible, course material will correlate with lecture material presented in the Animal Anatomy and Animal Physiology lecture courses. Anatomical dissection, necropsy and possibly examination of live animals will be utilized as well as the study of skeleton models, diagrams and photographs, radiographs and possibly photomicrographs of histological sections.

Course Competencies

Competency 1: The student will demonstrate knowledge of veterinary anatomy and physiology by:

1. Applying the fundamental techniques involved in anatomical dissection.
2. Identifying specific anatomical parts based on the use of a disarticulated skeleton.
3. Identifying all organs in situ on cadavers and models or on photos and diagrams/charts.
4. Identifying selected bones on radiographs.

Learning Outcomes

1. The student will communicate effectively using listening, speaking, reading, and writing skills.
2. The student will solve problems using critical and creative thinking and scientific reasoning.
3. The student will formulate strategies to locate, evaluate, and apply information.

Competency 2: The student will acquire the necessary psychomotor skills needed to handle prosection/necropsy instruments by

1. Identifying the name and purpose of different instruments commonly used in veterinary medicine.
2. Utilizing the specific instruments indicated for a necropsy.
3. Participating in the necropsy of a small animal cadaver.
4. Evaluating the necropsy using a necropsy guide, labeling all organs and/or parts as required.

Learning Outcomes

1. The student will communicate effectively using listening, speaking, reading, and writing skills.
2. The student will solve problems using critical and creative thinking and scientific reasoning.
3. The student will formulate strategies to locate, evaluate, and apply information.

Competency 3: The student will demonstrate understanding of necropsy procedures by:

1. Practicing personal safety measures against possible zoonotic diseases.
2. Explaining the protocol for systematic sequential approach when performing necropsies and the importance of accurate record keeping.
3. Collecting specimens for toxicological analysis.

4. Collecting and describing the anatomical alterations found in necropsy cases performed in the laboratory class.

Learning Outcomes

1. The student will communicate effectively using listening, speaking, reading, and writing skills.
2. The student will solve problems using critical and creative thinking and scientific reasoning.
3. The student will formulate strategies to locate, evaluate, and apply information.

Competency 4: The student will demonstrate understanding of the complexities ruling the anatomical & physiological phenomena in animals by:

1. Explaining the relationships of form and function using models or cadavers.
2. Listing and comparing the common anatomical and physiological differences among common domestic animal species.
3. Interpreting the function of each anatomical part and its influence(s) upon the animal economy.
4. Identifying major bones and anatomical features of selected animals.

Learning Outcomes

1. The student will communicate effectively using listening, speaking, reading, and writing skills.
2. The student will solve problems using critical and creative thinking and scientific reasoning.
3. The student will formulate strategies to locate, evaluate, and apply information.

Competency 6:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 7:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*

- …

Competency 8:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 9:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 10:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 11:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 12:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 13:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 14:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 15:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 16:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 17:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …

Competency 18:

The student will…:

- *Sublist item 1*
- *Sublist item 2*
- …

Learning Outcomes

- *Learning outcome 1*
- *Learning outcome 2*
- …