

## IS # 199V

### Directed Research in the Anatomy and Physiology of Domestic Animals

#### Course Description:

This course is a hands-on study of the anatomy and physiology of domestic animals. The student will learn the components of the skeletal and muscular systems of horses, canines, and felines and will perform and interpret physiological tests commonly used in veterinary practice.

#### Objectives/SLO'S

- 1) Identify the components of the skeletal system for horses, cats, and dogs.
- 2) Assemble and mount a horse skeleton for an educational display.
- 3) Become proficient at performing standard veterinary lab procedures including urinalysis, CBC, and blood chemistry.
- 4) Analyze and interpret data from the above laboratory tests.
- 5) Assist faculty in reviewing and troubleshooting lab exercises.

#### Required Activities/ Method of Instruction

- 1) **Lab Work:** The student will participate in a minimum of 20 hrs lab work. Activities may include: assembling skeletons for educational displays, attending biological safety training, performing diagnostic tests, photographing and troubleshooting lab exercises. All activities involving animal tissues will be under the direct supervision of a Natural Science faculty member.
- 2) **Meetings with Instructor:** The student will meet with the instructor weekly to discuss progress and concerns. The student should be prepared to give a short description of their current work and reading and outline future objectives.
- 3) **Anatomical Display** (October 26<sup>th</sup>): The student is required to correctly identify and articulate bones of a horse into a complete skeleton for permanent display. Materials will be provided by the instructor.
- 4) **Lab Practicum** (December 10<sup>th</sup>) The student will complete a practical exam (100 questions) covering all anatomical structures and physiological tests covered in the course.

#### Textbook/ Resource Materials (Provided by the instructor)

Pasquini, C., Spurgeon, T. and S. Pasquini. 2003. Anatomy of domestic animals. Sudz Publishing, Pilot Pt. TX 677 pp.

Hendrix, C.M. and M. Sirois. 2002. Laboratory procedures for veterinary technicians 5<sup>th</sup> Ed. Mosby/Elsevier.

**Method of Grading****Grade Scale**

Lab Work                    20 pts

A:     90-100

Weekly Meetings        10 pts

B:     80-89

Anatomical Display    40 pts

C:     70-79

Practicum                30 pts

D:     60-69

F:     < 60