**Curriculum Organizers/Topics**

**Unit 1: Introduction to Veterinary Science (12 - 15 hours)**

**Learning outcomes**

In this unit, the students will:

- Learn what veterinary science is and about some of the ongoing research.
- Learn about the history of veterinary science and medicine.
- Investigate the educational and other requirements for veterinarians and veterinary scientists.
- Discuss some of the ethics in the profession and some of the controversial issues.

**Unit 2: Small Animal Medicine (12 - 15 hours)**

**Learning outcomes**

In this unit, the students will:

- Learn what the nervous, endocrine, and gastrointestinal systems consist of and what they do for the body.
- Examine how skeletal and muscle disorders can affect animals.
- Discuss several infectious diseases that animals can catch from infected animals and investigate the causes and symptoms of these diseases.
- Learn about some of the treatments and preventative measures veterinary scientists have discovered for these diseases.

**Unit 3: Large Animal Medicine (12 - 15 hours)**

**Learning outcomes**

In this unit, the students will:

- Examine some of the diseases and conditions that affect livestock, including horses, cattle, and swine.
- Discuss equine diseases such as colic and equine influenza, including what causes the diseases and how they are treated.
- Investigate diseases that can affect cattle, such as mad cow disease and foot-and-mouth disease and the impacts they have.
- Discuss several diseases that swine can suffer from, including swine pox and pseudorabies.

**Unit 4: Exotic Animal Medicine (12- 15 hours)**

**Learning outcomes**

In this unit, the students will:

- Discuss veterinary medicine for exotic animals, including those animals that are kept in zoological parks and sanctuaries.
- Examine a few of the diseases that can affect birds and reptiles.
- Discuss how these diseases are treated and what effects the diseases may have.
- Examine some of the differences that veterinarians and veterinary scientists deal with in treating exotic animals in comparison to domestic animals like dogs and cats.

**Mid-term Exam (2 hours)**

**Learning Outcomes**

At the end of the unit, the students will be able to:

- Review information acquired and mastered from this course up to this point.
- Take a course exam based on material from the first four units in this course (Note: You will be able to open this exam only one time.)

**Unit 5: Poisoning and Toxicology (12 - 15 hours)**

**Learning outcomes**

In this unit, the students will:

- Discuss what toxicology, toxicity, and toxicosis are and how these concepts relate to veterinary science and medicine.
- Investigate some of the common poisons and toxins that affect livestock and domestic animals.
- Consider how the poisoning generally happens, what symptoms it can produce, and what veterinarians may do to treat the animal.

**Unit 6: Veterinary Parasitology (12 - 15 hours)**

**Learning Outcomes**

In this unit, the students will:

- Examine the area of veterinary parasitology, which studies parasites and their animal hosts.
- Investigate some of the different types of parasites and the various ways in which animals can become infected with parasites.
- Investigate several different examples of common parasites, including coccidian parasites, heartworms, mites, and fleas.
- Discuss how particular common parasites can affect the host animal, how animals become infected with the parasite, and how the parasite might be eliminated from the animal.

**Unit 7: Zoonotic Diseases (12 - 15 hours)**

**Learning outcomes**

In this unit, the students will:

- Learn about zooneses and why they are a concern to veterinary scientists and public health officials.
- Examine four zoonotic diseases, including Hantavirus, plague, anthrax, and ringworm.
- Learn more about how these diseases are transferred to humans, the symptoms of the diseases, and how these diseases are treated or prevented.

**Unit 8: Holistic Veterinary Science and Medicine (12- 15 hours)**

**Learning outcomes**

In this unit, the students will:

- Learn about some of the holistic treatments that are currently being used in veterinary medicine.

- Discuss holistic treatments like acupuncture, herbal medicine, and hydrotherapy.
- Examine some of the benefits of these types of treatments, what they are used for, and what research has been done on the effectiveness of the treatments.

**Final Exam (2 hours)**
**Learning outcomes**

- Review information acquired and mastered from this course up to this point.
- Take a course exam based on material from units five to eight in this course – the last four units. (Note: You will be able to open this exam only one time.)

**104 – 124 hours total**

**Student Assessment**

First Assignment – 10% of overall course mark
Units 1-8 – 10% of overall course mark for each unit
Midterm Exam - 5% of overall course mark
Final Exam - 5% of overall course mark

Within Each Unit, there is equal weighting for the following three categories.

1. Text and Lab Questions

- Text questions check the student's comprehension of the readings and resources.
- Lab Questions are connected to an activity that explores a facet of the field of Veterinary Science, and encourage critical thinking
- Labs involve the exploration of an interactive website or video that relates to the learning outcomes covered in the unit. Students follow directions to explore the interactive websites, and then answer questions based on that exploration.

2. Discussions

- Discussions questions allow students to interact and share their thoughts on topics in Veterinary Science

3. Unit Quizzes,
   - Unit quizzes check comprehension of topics covered in units

Midterm and & Final

- Midterm Exam – checks comprehension of units 1-4
- Final Exam checks comprehension of units 5-8