

Veterinary Science: Course Syllabus

Veterinary Science: The Care of Animals

COURSE DESCRIPTION:

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times...we humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.

Unit 1: Introduction to Veterinary Science

Objectives:

Upon completion of this unit, you will be able to:

- * **Discuss what the areas of veterinary science and medicine include and how these areas differ from each other.**
- * **Learn about the history of veterinary science and medicine.**
- * **Examine some of the research areas that veterinary scientists are working on today.**
- * **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.**

ASSIGNMENTS:

**Introduction to Veterinary Science:
Unit Text Questions**

Homework

10 points

Introduction to Veterinary Science: Online Veterinary Science Lab Questions	<i>Homework</i>	10 points
Unit 1 Discussion Assignment 1	<i>Discussion</i>	5 points
Unit 1 Discussion Assignment 2	<i>Discussion</i>	5 points
Unit 1 Quiz –Introduction to Veterinary Science	<i>Quiz</i>	15 points

Unit 2: Small Animal Medicine

Objectives:

Upon completion of this unit, you will be able to:

- * **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.**
- * **Investigate the causes and symptoms of the diseases discussed in the unit.**
- * **Learn about some of the treatments and preventative measures that veterinary scientists have discovered for these diseases.**

ASSIGNMENTS:

Small Animal Medicine: Unit Text Questions	<i>Homework</i>	10 points
Small Animal Medicine: Online Veterinary Science Lab Questions	<i>Homework</i>	10 points

Unit 2 Discussion Assignment 1	<i>Discussion</i>	5 points
Unit 2 Discussion Assignment 2	<i>Discussion</i>	5 points
Unit 2 Quiz – Small Animal Medicine	<i>Quiz</i>	15 points

Unit 3: Large Animal Medicine

Objectives:

Upon completion of this unit, you will be able to:

- * **Discuss why the health of horses, cattle, and swine is important for public health.**
- * **Learn about several diseases that can affect horses and how they are treated.**
- * **Examine what mad cow disease is and why it is such a feared disease for cattle.**
- * **Investigate several diseases that affect cattle and the impact that they have.**
- * **Discuss some diseases that affect swine and how they are treated.**

ASSIGNMENTS:

Large Animal Medicine: Unit Text Questions	<i>Homework</i>	10 points
Large Animal Medicine: Online Veterinary Science Lab Questions	<i>Homework</i>	10 points
Unit 3 Discussion Assignment 1	<i>Discussion</i>	5 points
Unit 3 Discussion Assignment 2	<i>Discussion</i>	5 points

Unit 3 Quiz – Large Animal Medicine**Quiz**15 points

Unit 4: Exotic Animal Medicine**Objectives:**

Upon completion of this unit, you will be able to:

- * **Discuss what exotic animals are and why treating them may take additional education and training.**
- * **Learn about some of the diseases that affect birds and what treatments are used for these diseases.**
- * **Learn about some of the diseases that affect reptiles and what treatments are used for these diseases.**
- * **Examine what roles veterinary scientists may fill in zoological parks and sanctuaries.**
- * **Investigate what challenges veterinary scientists face when working with animals at zoological parks and sanctuaries.**

ASSIGNMENTS:**Exotic Animal Medicine: Unit Text Questions****Homework**10 points

Exotic Animal Medicine: Online Veterinary Science Lab Questions**Homework**10 points

Unit 4 Discussion Assignment 1**Discussion**5 points

Unit 4 Discussion Assignment 2**Discussion**5 points

Unit 4 Quiz – Exotic Animal Medicine**Quiz**

15 points

Veterinary Science Midterm Exam

Objectives:

Upon completion of this unit, you 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.)**

ASSIGNMENT:

Veterinary Science Midterm Exam	<i>Exam</i>	50 points
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Midterm Discussion Assignment	<i>Discussion</i>	5 points
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Unit 5: Poisoning & Toxicology**Objectives:**

Upon completion of this unit, you will be able to:

- * **Discuss what toxicology, toxicity, and toxicosis are and how these concepts relate to veterinary science and medicine.**
- * **Learn how acute toxicosis differs from chronic toxicosis.**
- * **Discuss how exposure to toxins can occur and what factors affect toxicity.**
- * **Examine some of the natural forms of poisoning, such as poisoning from certain plants and fruits and bites from poisonous snakes.**
- * **Investigate some artificial substances that can cause poisoning, such as rodenticides.**

ASSIGNMENTS:

Poisoning & Toxicology: Unit Text Questions	<i>Homework</i>	10 points
Poisoning & Toxicology: Online Veterinary Science Lab Questions	<i>Homework</i>	10 points
Unit 5 Discussion Assignment 1	<i>Discussion</i>	5 points
Unit 5 Discussion Assignment 2	<i>Discussion</i>	5 points
Unit 5 Quiz – Poisoning & Toxicology	<i>Quiz</i>	15 points

Unit 6: Veterinary Parasitology

Objectives:

Upon completion of this unit, you will be able to:

- * **Learn what parasites are and how they relate to hosts.**
- * **Discuss several different types of parasites and how they differ.**
- * **Examine how animals may become infected with parasites and how parasites may be transferred from animal to animal.**
- * **Investigate some of the different symptoms that animals can experience due to parasites.**
- * **Investigate some of the different life cycles for common parasites.**

ASSIGNMENTS:

Veterinary Parasitology: Unit Text Questions	<i>Homework</i>	10 points
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Veterinary Parasitology: Online Veterinary Science Lab Questions	Homework	10 points
Unit 6 Discussion Assignment 1	Discussion	5 points
Unit 6 Discussion Assignment 2	Discussion	5 points
Unit 6 Quiz – Veterinary Parasitology	Quiz	15 points

Unit 7: Zoonotic Diseases

Objectives:

Upon completion of this unit, you will be able to:

- * **Learn about zoonoses and why they are a concern to veterinary scientists and public health officials.**
- * **Discuss Hantavirus and how it is transmitted to humans.**
- * **Examine the plague and how this zoonotic disease has impacted human societies throughout history.**
- * **Investigate anthrax and how it can be transmitted to humans.**
- * **Discuss ringworm and the symptoms of this zoonotic infection.**

ASSIGNMENTS:

Zoonotic Diseases: Unit Text Questions	Homework	10 points
Zoonotic Diseases: Online Veterinary Science Lab Questions	Homework	10 points
Unit 7 Discussion Assignment 1	Discussion	5 points

Unit 7 Discussion Assignment 2	<i>Discussion</i>	5 points
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Unit 7 Quiz – Zoonotic Diseases	<i>Quiz</i>	15 points
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Unit 8: Holistic Veterinary Science and Medicine

Objectives:

Upon completion of this unit, you will be able to:

- * **Learn about holistic and allopathic veterinary treatments and how they differ.**
- * **Discuss the use of acupuncture for the treatment of animal diseases.**
- * **Examine how hydrotherapy can benefit horses and dogs.**
- * **Investigate how herbs and botanicals are used to treat animal diseases.**
- * **Learn about the use of essential oils with animals.**

ASSIGNMENTS:

Holistic Veterinary Science and Medicine: Unit Text Questions	<i>Homework</i>	10 points
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Holistic Veterinary Science and Medicine: Online Veterinary Science Lab Questions	<i>Homework</i>	10 points
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Unit 8 Discussion Assignment 1	<i>Discussion</i>	5 points
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Unit 8 Discussion Assignment 2	<i>Discussion</i>	5 points
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**Unit 8 Quiz – Holistic Veterinary
Science and Medicine****Quiz**15 points

Veterinary Science Final Exam**Objectives:**

Upon completion of this unit, you will be able to:

- * **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.)**

ASSIGNMENT:**Veterinary Science Final Exam*****Exam*****50 points**

**Class Reflection Discussion
Assignment*****Discussion***

10 points

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