BIMS 3301-001

Introduction to Animal Science

Dr Kimberly Harrell

Introduction

The purpose of this class is to introduce students to the scientific and economic world of animal science in regards to agribusiness/agriculture and veterinary medicine. This class will prepare those students wishing to enter into the field of veterinary medicine with a basic knowledge base for large and small animals in respect to nutrition, handling, behavior, breed development, disease prevalence and how all the above relate to animal production and management.

Format

The format of this class will include both traditional lecture and round table discussion. In order for each student to receive the most out of this class it will require interactive participation during class time.

Required texts


You can purchase this text online at Amazon.com. You will need this book to reference during the course of the semester.

Focus

Traditional introductory animal science courses involve in depth discussion of large animals as they pertain to production and agribusiness. They usually involve little presentation of small animals or companion animals and how they pertain to industry. Since most students are taking this course to prepare themselves for veterinary school, I want to focus more on the medical aspects of large animal production along with extrapolating some of these same agribusiness principles into the small animal industry. Depending on the individual interests of those participating in the course, I may choose to alter some of the lectures to include basic or further principles of epidemiology, immunology, and laboratory medicine. We will discuss career options available in the veterinary industry, expected salaries, recruitment, and preparing oneself for veterinary school acceptance. One of the main goals is to get students to take the concepts of agribusiness and apply them to all areas of animal management.

Instructors Contact Information

baybreezeac@yahoo.com

361-727-0900
**Exam Format**

Your grade will be comprised of 5 portions each weighted to the appropriate amount of effort required. There will be 2 major exams each comprehensive of the course material. Each of these may have portion that is performed outside of class. If there is a take home portion of the exam, it will be required to be turned in the following class week. No exceptions. Students will be given a survey questionnaire on the first day of class. This survey is not optional, for it will help gauge basic animal knowledge and experience along with providing guidance for additional topics for discussion during the term of the course. Each student will be required to write a short essay/research paper on a public health topic or disease process affecting production of an animal industry. Each student must write on a unique topic; therefore, each topic must be approved by my self prior to beginning any research. Each student will need to email me with their proposed topic for approval. This written paper will serve as your final exam and shall be turned in on the last week of class.

**Attendance policy**

Attendance is important in this course. In order to receive a satisfactory grade your attendance will be required. Attendance will be called at each class and will account for 15 percent of your grade. If you miss a class, you must present a written medical excuse to be excused.

**Grade make-up**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Survey Questionnaire</td>
<td>5%</td>
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<tr>
<td>Exam 1</td>
<td>30%</td>
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<tr>
<td>Exam 2</td>
<td>30%</td>
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<tr>
<td>Research paper</td>
<td>20%</td>
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<tr>
<td>Attendance</td>
<td>15%</td>
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**Make up Exam Policy**

If a student misses an exam or fails to turn in an exam on time, then they will get a zero (0) for that exam grade. The only exceptions will be if a written medical excuse is presented. You will need to contact via email or phone asap if you know you will not be present for a scheduled exam.
Course Outline—subject to change

Week 1 – Introduction, Syllabus
  
  Survey Questionnaire
  
  Animal Agriculture – Ch 1
  
  The Animal Industry – Ch 2

Week 2 – Chapter 3- Nutrition

Week 3 – Chapter 4- Digestive and metabolic systems
  
  Chapter 5- Nutrition of Non-Ruminants

Week 4 – Basic Equine Animal Husbandry
  
  Chapter 7 – Nutrition of Horses/ Diseases common to equines
  
  Horse Hair coat colors

Week 5 – Cattle Breeds and Genetics (provided materials, and Ch. 21.4)
  
  Chapter 6 – Nutrition of Ruminants/ Diseases of Cattle

Week 6- Chapter 12 – Animal Health

Week 7- Chapter 13- Animal Behavior

Week -8 - Exam 1

Week – 9- Chapter 29 – The Cow Herd

Week-10-Chapter 32- Horses and Ponies

Week – 11- Bioterrorism & Foreign Animal Disease Surveillance

Week -12- Student Reports overview ( see exam schedule)

Week 13- Professional Development

Week 14- Professional Development

Week 15- Exam 2 / Final exam (research paper)