

Veterinarian Medical Applications

Instructor: Mark Bindseil

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Conference Hours: 4th period 2:55 – 4:30

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About Me:

Howdy, my name is Mark Bindseil and I am one of the Agricultural Science Teachers here at Burbank High School. This is my ninth-year teaching agriculture at Burbank High School. Before Burbank I taught agriculture for 15 years at Highlands High School.

Agriculture has been a major part of my life. I have a small ranch located in Blanco, Texas which is about 1 hour north of San Antonio. In high school I took Agricultural Science classes all four years. During this time I began working on a large cattle ranch in Blanco. During the time working on this ranch, I realized I wanted agriculture to be my life. I graduated from Sul Ross State University in Alpine Texas in 1994. After graduating I began working full time on this ranch as the Ranch Manager. In 2000 I decided to leave the ranch and start teaching agriculture.

I have a daughter, Megan, who is currently a senior at "THE" Texas A&M University. My favorite family members are my crazy yeller dog and the red dog.

When I am not in class, I spend most of my free time at my ranch relaxing and hunting.

Course Overview & Objectives

Course Description:

(1) Veterinary Medical Applications. To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

(2) Nature of science. Science, as defined by the National Academy of Sciences, is the "use of evidence to construct testable explanations and predictions of natural phenomena, as well as the knowledge generated through this process." This vast body of changing and increasing knowledge is described by physical, mathematical, and conceptual models. Students should know that some questions are outside the realm of science because they deal with phenomena that are not scientifically testable.

Course Objectives:

1. The student, for at least 40% of instructional time, conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices.
2. The student uses scientific methods and equipment during laboratory and field investigations
3. The student uses critical thinking, scientific reasoning, and problem solving to make informed decisions within and outside the classroom.
4. The student learns the employability characteristics of a successful employee
5. The student researches current topics in veterinary medicine, recognizes the importance of animals in society, and discusses professional ethics and laws that relate to veterinary medicine
6. The student evaluates veterinary hospital management and marketing to determine its importance to the success of veterinary clinics and hospitals.
7. The student communicates the importance of medical terminology, evaluates veterinary terms to discover their meanings, and demonstrates the ability to use terms correctly.
8. The student explores the area of animal management as it relates to animal identification, animal characteristics, and behavioral temperament.
9. The student investigates the body systems and gains a working knowledge of each system's purpose and functions and how each system is affected by disease
10. The student performs mathematical calculations used in veterinary medicine
11. The student evaluates animal diseases and identifies internal and external parasites
12. The student evaluates an animal's health during a clinical examination.
13. The student identifies imaging equipment and demonstrates how to safely operate and maintain equipment
14. The student determines nutritional requirements for ruminant and non-ruminant animals and communicates the importance of animal nutrition in maintaining a healthy animal.
15. The student examines various aspects of clinical hematology and veterinary pathology.
16. The student identifies hospital procedures, skills, and objectives that are included in the job description of an animal care assistant.
17. The student identifies and discusses surgical-assisting procedures, skills, and objectives that are included in the job description of an animal care assistant.
18. The student identifies pharmacology-assisting procedures, skills, and objectives that are included in the job description of an animal care assistant.
19. The student develops an improved supervised agriculture experience program as it relates to agriculture, food, and natural resources.
20. You will have the opportunity to earn the Elanco Veterinary Medical Applications Industry based certification.

Materials

ICEV online personal account - this will be accessed through SAISD Classlink Single Sign On

[SAISD Classlink SSO \(Links to an external site.\)](#)

Classroom Expectations

- Show up on time
- No inappropriate language or hand gestures
- Stay on task and focused so you do not miss anything the speaker is saying
- Respect others at all times.
- Take responsibility for their learning.
- Come to each class prepared
- Conduct themselves in a safe manner at all times.
- Contribute to class discussions and actively participate in each lesson.
- Wear required personal protective equipment (including eye and hearing protection) during all lab exercises.
- Act in a professional manner at all times.
- Be dismissed from class by the instructor (not the bell).
- Conduct themselves according to this policy during guest speakers, with substitutes and on field trips.
- Follow all instructions given by the teacher.
- Adhere to the classroom / laboratory policy at all times.
- Follow the rules and regulations set forth by the SAISD Student Code of Conduct.
- Be responsible for school issued textbooks and keep them covered at all times.
- Ask before using the restroom or leaving the classroom.

[SAISD Student Bill of Rights | Code of Conduct \(Links to an external site.\)](#)

Grading Policy

Your final numerical grade for the course will be based on the number of points earned through a variety of learning experiences. These learning experiences will include, but are not limited to daily work, homework assignments, field and laboratory investigations, tests and major unit assignments or projects. This class offers many opportunities for hands on activities. If you choose not to participate in any of these activities you will receive a 0 (zero). This class will do many activities outside. If you choose not to participate outside you will receive a 0 (zero).

Grading Scale:

90-100...A

80-89...B

75-79...C

70-74...D

Below 70...Failing*

*To receive credit for a course a student must maintain an average of 70 or above in the overall

course grade.

Grading System:

60% Homework, Daily assignments, quizzes, Labs

40%Test

The final semester grade for this course will be based on the following:

The semester exam will account for 15% of the final grade

Tutorials – I will be available for tutoring Wednesday after school from 4:30 – 5:00

Technical Support

For technical issues, troubleshooting guides and to file a Help Ticket - go to [SAISD IT Support Portal \(Links to an external site.\)](#). For Canvas Learning Management System issues click on the **Help** button on the global navigation sidebar.

Non-discrimination statement

It is the policy of San Antonio ISD not to discriminate on the basis of race, color, religion, national origin, age, sex, gender identity, gender expression, sexual orientation or disability in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; Section 504 of the Rehabilitation Act of 1973, as amended, and SAISD's board policies DIA, FFH, and FFI.

Es norma del distrito de San Antonio no discriminar por motivos de raza, color, religión, origen nacional, sexo, identidad de género, expresión de género, orientación sexual o discapacidad, en sus programas, servicios o actividades vocacionales, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; el Título IX de las Enmiendas en la Educación, de 1972; la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda, y las pólizas DIA, FFH, y FFI de la mesa directiva de SAISD.