

Advanced Animal Science

Instructor: Mark Bindseil

Phone: (210) 228-1210 ext. 32049

Email: mbindseil@saisd.net

Room: 1711

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

Website: <https://schools.saisd.net/page/mbindseil-Home>

About Me:

Hi, 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:

Advanced Animal Science. To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

Course Objectives:

1. The student, for at least 40% of instructional time, conducts field and laboratory investigations using safe, environmentally appropriate, and ethical practices. These investigations must involve actively obtaining and analyzing data with physical

equipment, but may also involve experimentation in a simulated environment as well as field observations that extend beyond the classroom

2. The student uses scientific methods and equipment during field and laboratory investigations.
3. The student uses critical thinking, scientific reasoning, and problem solving to make informed decisions within and outside the classroom
4. The student evaluates the employability characteristics of an employee.
5. The student demonstrates principles relating to the human, scientific, and technological dimensions of scientific animal agriculture and the resources necessary for producing domesticated animals.
6. The student applies the principles of reproduction and breeding to livestock improvement.
7. The student applies the principles of molecular genetics and heredity.
8. The student examines and compares animal anatomy and physiology in livestock species.
9. The student determines nutritional requirements of ruminant and non-ruminant animals.
10. The student evaluates animal diseases and parasites.
11. The student defines how an organism grows and how specialized cells, tissues, and organs develop.
12. The student recognizes policies and issues in animal science.
13. The student discusses livestock harvesting operations.
14. The student explores methods of marketing livestock.
15. The student develops an advanced supervised agriculture experience program as it relates to agriculture, food, and natural resources.

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.
- You will have the opportunity to earn the Elanco Animal Science Industry certification and or the Elanco Veterinary Medical Applications Certification.

[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.