

Advanced Animal Science

Instructor: Mrs. Kyle & Mr. Harkrider

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Course Description:

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 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.

The year will include the following topics:

- History of Animal Science
- Careers
- Scientific Method
- Breeds of Livestock
- Food Safety
- Animal Rights vs. Animal Welfare
- Livestock Evaluation
- Digestion
- Nutrition and Feeds
- Cells
- Genetics
- Repro & Estrus Cycle
- AI, Embryo Transfer In-vitro, Palpation
- Skeletal, Muscle, and Nervous Systems
- Organs
- Respiratory, Circulatory, and Urinary Systems
- Animal Health
- Biotechnology

Class Materials:

- Chromebook
- Writing Utensils
- Folder (if you would like to keep any hard copies or unfinished work)

Course Expectations:

Most of our work will be done in the classroom. From time to time as we work on large projects you may need to take work home to complete the assignment. It is your responsibility to bring back the assignment on time.

We will conduct several labs in class. All students will be expected to participate. When in a lab setting please keep safety in mind.

We will be working in group for several topics we cover. Be courteous to your fellow group members and encourage participation among everyone.

If the opportunity arises for any off campus learning, we ask all students to participate in the experience as well as be mindful of your behavior and attitude. This may include labs, guest speakers and field trips. A permission slip will be given out at the beginning of the year to cover all events.

All students will be expected to participate in class each day and give their best effort towards each assignment. You are also expected to bring your materials to class each day. If you are unsure about how to complete a task and need further instruction please ask. From time to time students who grasp concepts quickly may be asked to help other students. This is an elective science course but we will do work every day.

Chromebook:

You will each be required to bring your Chromebook to class daily charged. Failure to do so may have an impact on your grade. Please come to class prepared as we will use our Chromebooks as often as possible!

Absent Work:

It is the student's responsibility to complete the work you miss while you are out. Work will be posted in Google Classroom for you to complete. Should you not see work in google classroom please notify your teacher by email so we can either fix the problem or come up with a plan for you to receive it.

FFA Participation

FFA participation is not mandatory but we do encourage you to get involved. FFA has a place for everyone. You do not have to show an animal to be in FFA although that is one aspect of our organization. In the fall we participate in Leadership Development Events (Quiz, Creed, Chapter Conducting, Skills, etc.) and in the spring we participate in Career Development Events (Wool Judging, Poultry Judging, Livestock Judging etc.).

There are many other opportunities to get involved so be listening in class for upcoming details.

Grading Policies

Your assignments will be graded according to NZISD policy. We will let you know if an assignment is a major, minor, or other grade.

Major Grades = 40%

Exams
Major Projects

Daily Grades = 60%

Class Notes
Record Book
Daily Work/Quizzes

Class Rules

1. Be in class on time
2. Be prepared to work (Chromebook, supplies, attitude)
3. Be respectful! Teacher and adult visitors, classmates and facilities/equipment
4. No Cellphones or earbuds unless instructed by the teacher
- 5. Clean up before you leave!**
6. "Horseplay" is not acceptable in the classroom or labs
7. Make our building a place to be proud of
8. Give your best effort everyday
9. School rules remain in place. Discipline actions will be taken per the Discipline Management Plan and Student Code of Conduct set by North Zulch ISD