

Advanced Animal Science

Ms. Rollison

Class Description:

Advanced Animal Science 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. In this course, you will be able to explore the different careers associated with agriculture and animals. 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." Students should know that some questions are outside the realm of science because they deal with phenomena that are not scientifically testable

Prerequisites:

Recommended for grades 11 – 12, Required: Successful completion of Biology AND Chemistry OR IPC, Algebra I AND Geometry, AND either Small Animal Management., Equine Science, OR Livestock Production. Recommended prerequisite: Veterinary Medical Applications.

Expected Student Outcomes:

Upon completion of this course, the students will be able to:

1. The student develops a supervised agriculture experience program.
2. The student demonstrates professional standards/employability skills as required by business and industry.
3. The student uses scientific methods and equipment during laboratory and field investigations.
4. The student uses critical thinking, scientific reasoning, and problem solving to make informed decisions within and outside the classroom.
5. The student demonstrates principles related to the human, scientific, and technological dimensions of 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 demonstrates an understanding of policies and issues in animal science.
13. The student discusses livestock harvesting operations.
14. The student explores methods of marketing livestock.

Classroom Rules and Expectations:

1. Be on time to class and bring required supplies
2. Be respectful.
3. Come willing to work and learn
4. Listen while others are talking
5. Follow all lab safety rules at ALL times

Evaluation and Grading:

Nine Weeks Grades will be based on the following percentages:

Summative Assessments	50%
Formative Assessments	50%

Semester grades will be based on the following percentages:

Nine weeks grades	80%
Semester Exam	20%

Retest Policy

Please refer to the SCUCISD Grading Policy

Late Work

1. Late work is defined as any assignment that is not submitted on the due date and class period with the exception of make-up work for absences or approved school activities. Alternative assignments may be given if the original assignment has been assessed and returned.
2. 25% will be deducted from the grade earned for late assignments.
3. Late assignments will be accepted within 5 school days, not to exceed the end of the 9 week grading period.
4. Extenuating circumstances may occur that prevent the completion and turning in of assignments on the due date. It is the parent/guardian and/or student's responsibility to inform the teacher of any such circumstances so that an exception to the rule may or may not be granted. The teacher may grant exceptions based on these circumstances.

Make-Up Work for Absences

Students are required to make up assignments, homework, and assessments missed due to absences. Students are allowed two school days for every day of class missed. If students do not complete make-up work in the time allotted, the late work policy will apply.

1. Students will not be required to take a quiz or test on the day returning to class from an absence if the quiz or test was announced during the student's absence.
2. Make-up work and tests for all absences shall be of the same rigor, but not necessarily the same format, as the original activity, assignment or test.
3. Make-up tests or presentations may be scheduled before school, after school, during study hall or during the student's class period at the teacher's discretion to ensure that new and/or significant content is not missed.
4. Students should make prior arrangements with teachers for making up missed work when the absence can be anticipated, e.g. a dental appointment, court appearance or appointment, approved school-related activities, etc.

Supplies Required:

Students are required to obtain the following supplies and bring them to class daily.

- Pens/ Pencils (blue or black ink)
- Spiral or folder for notes notebook for notes

Contact Information:

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Agricultural Science Teacher

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Conference 6th Period (Room G178) Tutoring available 8:00am-8:30am, or by appointment