

2021 - 2022 Agriscience Success Indicators

Academic Skills

Reading	Use of college (freshman/sophomore) level texts and government websites; frequent reference/use of scientific names and medical terms; grade level reading ability suggested.
Writing	Frequent writing, scientific observation journaling; research and response papers, technical writing.
Math	Algebra; Ability to calculate animal rations, chemical equations, critical measurement, medication dosages, injections. Geometry for use during landscape design.
Science	Class must move at rapid pace to cover the vast amount of curriculum required. Student should have completed biology with at least a C.
Memorization/Notetaking	Ability to memorize is essential; anatomy, body system components, animal species, medical terminology. Notetaking required, as each unit builds on previous knowledge; maintaining a yearlong notebook required.

Physical Skills

Physical Requirements	Ability to be in outdoor environment; able to lift heavy things (at least 40 pounds); physical labor of caring for animals.
Clothing/Special Equipment	Outdoor shoes, heavy clothing for outdoor/animal labs; black dress pants/skirt, white shirt, and black dress shoes required for FFA competitions (jacket and ties furnished).
Fine Motor Skills/Coordination	Microscope & lab procedures, such as using test tubes and grooming tools, injections. Use of small hand tools and manual dexterity for propagation techniques.
Spatial Awareness	Ability to create and interpret scaled drawings.

Other Requirements

Medical Requirements	Student will be in settings with continual exposure to animals, plant pollen, dust, mold, bees, and other environmental allergens; tetanus shot necessary.
Related Interests	Medical or animal-related interests; previous experience in 4H, working in vet office, animal or farm setting. Outdoor sports, crops, floral, greenhouse, or gardening experience.
Transportation	Transportation may be a consideration for SAE (Supervised Agriculture Experience), depending on student's choice of project, as this requires a minimum of 20 hours in an agriscience experience outside the classroom each semester.
Certification/ Licensure	Students will work towards certificate in safety which may require time outside of the classroom.

Other Requirements (Continued)

Homework	1-2 times per week or more, depending on completion of assignments in class; numerous projects and weekly career journal.
Classroom Instructional Methods/Time	1 hour lecture, 1 hour lab/application, 1/2 hour group application/practice.

Additional Information

This is agriscience, not simply an animal lover's class; therefore, handling and interacting with live animals is a core component, but is not the overriding goal of the animal science curriculum. Some animals raised in class will be processed for meat. Students will be responsible for completing chores related to the animals and plants raised in the classroom.

Demonstrated pattern of regular attendance critical to student success.

Presentation skills - Frequent group project presentations, frequent class oral/individual presentations, FFA contests, demonstration and prep required in class.

Student must work in cooperative manner with other students and animals; understanding of safety issues is essential and will be emphasized; students must demonstrate ability to control actions in varied settings.

Student is required to complete 20-hour SAE (Supervised Agriculture Experience) outside of class per semester and 75-hour SAE over the summer to return as a second year.

Curriculum has heavy emphasis on project-based learning. Successful students must be able to prioritize and manage tasks to complete projects by established deadlines.

Revised 1-13-2020

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