

Animal Science

Teacher: Ms. Robyn Bechtel
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Meeting Time: Period 4 and 8

Course Description

In Animal Science, we will study the various systems of animals along with their behavior and care. The following are just some of the topics to be covered within the next year:

1. History and Use of Animals in Society
 - How have animals and humans interacted in the past? Animals play an important role in many people's lives, what is that relationship like?
2. Cells and Genetics
3. Animal Nutrition and Digestion
 - Different digestive systems and organs will be studied, along with how to formulate an appropriate ration for animals.
4. Animal Reproduction
 - Common livestock reproduction practices and organ systems will be discussed.
5. Anatomy and Physiology
 - Study the various tissues and systems that make up an animals body and their key functions and interactions. Main project will be fetal pig dissection.
6. Animal Health and Treatment
 - Evaluate available online medical resources and diagnostic tools. Selection and administration of correct medicines.
7. Animal Selection and Cost of Production
 - Livestock and Dairy Cattle evaluation methods will be used. Costs associated with raising an animal will be calculated.
8. Animal Behavior and Management
 - A look at the external influences on behavior and social interactions, common management and handling practices.

Course Materials

3 ring binder for storing handouts – **CAN** be stored in classroom
Pen and/or Pencil
Calculator (Occasionally)
Notebook paper for note-taking
When working on shop projects - Appropriate clothing
Closed toed shoes – ABSOLUTELY NO FLIP FLOPS
Long pants (jeans)
Old cotton shirt to wear in the shop – especially when painting

Safety in the Lab

At times, this course will be working in the shop and lab areas. Safety is critical in the lab setting. Students must follow all shop and lab procedures outlined by the instructor. Common sense is also essential when dealing with machines, tools, etc. As a safety rule, NO FOOD OR DRINK SHOULD BE CONSUMED IN CLASS (except for specific, designated labs!!!!) PRACTICE SAFE WORK HABITS AT ALL TIMES. FAILURE TO DO SO WILL RESULT IN EXPULSION FROM THIS CLASS. ALL ACCIDENTS, NO MATTER THEIR SEVERITY, SHOULD BE REPORTED TO THE INSTRUCTOR.

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Skill Journal

Each student enrolled in a Williamsburg Agriculture course needs to keep a skill journal with entries of skills or principles learned and or completed. This is a requirement of the course. **If the student does not fulfill the requirement, grades will be affected.** Skill Journals are supplied by the Ag Department and time is given in class to complete them and are collected and checked the last Friday of every month.

Grading

Grades are based on the total points received divided by the total maximum points for the marking period. The final grade will be based on all information covered during the course of the class. **ALL** missed work must be made up or a grade of zero is awarded. After returning from an absence, it is YOUR RESPONSIBILITY to CHECK for any work missed, ask a student for additional notes and then check with Ms. Bechtel for additional information.

Coursework will be divided approximately as follows:

5%	Skill Journal
20%	Classroom Theory
20%	Tests/Quizzes
40%	Project/Lab work
15%	Class Participation/Safety/Attitude

FFA/SAE

FFA and **SAE** are two very integral components of the complete agricultural education program. The National FFA Organization is **the premier youth leadership organization in the US.** Members learn and practice many leadership skills. FFA is a part of the Agriculture Curriculum; **all classes have FFA components.** You will receive more information during class.

SAE (Supervised Agricultural Experience) is another extremely important part of agricultural education. This is a project done outside of school and is a place to apply what you learn in the classroom. **Records must be kept on your project.** You will receive more information in class

Expectations

Classroom order and discipline are an important part of this course, as well as other courses you are taking. In addition to expecting "normal" acceptable behavior, I expect you to demonstrate **ABOVE AVERAGE** behavior due to safety concerns and the fact that you will be in the "public eye" many times (fieldtrips, contests, etc.)

As a member of an agricultural science course, your actions and appearance must be in line with industry standards in order for you to participate fully in class. **Unsafe or unacceptable behavior and/or appearance (shirt / pants) will NOT be tolerated.**