

Troy High School Agricultural Education

Agriscience Course Syllabus

Course Description

Agriscience is an introductory course that explores the science, technology, and applications behind modern agriculture. Students will investigate a variety of agricultural topics through hands-on activities, laboratory experiences, projects, demonstrations, and classroom instruction. Topics may include animal science, plant and soil science, food science, agricultural mechanics, natural resources, biotechnology, agricultural technology, and careers in agriculture.

The goal of this course is to help students understand how science is used to solve real-world agricultural problems and to develop skills that can be applied to future education, careers, and everyday life.

Course Objectives

- Explain the importance of agriculture and its impact on society.
- Describe how science and technology are used in agriculture.
- Apply the scientific method to agricultural investigations.
- Identify basic concepts in animal, plant, food, and soil science.
- Demonstrate safe practices during classroom and laboratory activities.
- Use problem-solving and critical-thinking skills to address agricultural challenges.
- Complete hands-on agricultural projects and laboratory activities.
- Explore careers and educational opportunities within the agriculture industry.
- Demonstrate teamwork, communication, responsibility, and professionalism.

Major Units

- Introduction to Agriscience
- Agricultural Careers
- Animal Science
- Horticulture
- Food Science
- Welding & Shop Safety
- FFA & Leadership

Laboratory & Hands-On Safety

Safety is a priority in Agriscience. Students may participate in activities involving plants, animals, food, soil, tools, equipment, and agricultural materials.

- Follow all instructor directions.
- Use tools and equipment only as instructed.
- Wear appropriate personal protective equipment (PPE) when required.
- Treat animals, plants, equipment, and materials responsibly.
- Report injuries, accidents, or unsafe conditions immediately.
- Keep work areas clean and organized.
- Never participate in horseplay or unsafe behavior.

Required Materials

- Notebook or binder
- Pencil or pen
- Chromebook or school-issued device when available
- Folder for handouts
- Appropriate clothing and footwear for hands-on activities when announced

Parent/Guardian Communication

Parents and guardians are encouraged to contact Ms. Bruce with questions or concerns regarding student progress, classroom expectations, assignments, or course requirements.

Student Acknowledgment

I have read and understand the Agriscience course syllabus and agree to follow all classroom, laboratory, and safety expectations.

Student Name: _____

Student Signature: _____ Date: _____

Parent/Guardian Signature: _____ Date: _____