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East Lee County High School



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**EAST LEE COUNTY
AGRICULTURE
& NATURAL
RESOURCE
ACADEMY**

<https://elc.leeschools.net>

OUR PROGRAM

The academy is designed to develop competencies in the areas of agriculture history and the global impact of agriculture, career opportunities and employability, scientific and research concepts, biological and physical science principles, environmental principles, agriscience safety, principles of leadership, agribusiness, and human relation skills in agriscience. Laboratory based activities are an integral part of this course. These include safe use and application of appropriate technology, scientific testing and observation equipment.

Laboratory investigations that include scientific inquiry, research, measurement, problem solving, emerging technologies, tools and equipment, as well as, experimental quality, and safety procedures will be an integral part of this course. Students will interact with materials and primary sources of data or with secondary sources of data to observe and understand the natural world. Students will develop an understanding of measurement error, and develop the skills to aggregate, interpret, and present the data and resulting conclusions. Equipment and supplies will be provided to enhance these hands-on experiences for students. A minimum of 20% of classroom time will be dedicated to laboratory experiences.

Students will certify in Agriculture Association Certification and Agritechnology Certification

PROGRESSION

AGRISCIENCE FOUNDATIONS

- Describe the history of agriculture and its influence on the global economy.
- Practice agriscience safety skills and procedures.
- Apply scientific and technological principles to agriscience issues.
- Apply environmental principles to the agricultural industry.
- Investigate and utilize basic scientific skills and principles in plant science.
- Investigate and utilize basic scientific skills and principles in animal science.
- Demonstrate the use of agriscience tools, equipment, and instruments.
- Demonstrate agribusiness, employability and human relation skills.
- Apply leadership and citizenship skills.
- Discuss components of food safety and handling practices in agriculture.



AGRITECHNOLOGY 1

- Explore the scope of the agriscience industry.
- Determine proper animal health and nutrition.
- Identify components of reproduction.
- Identify procedures in animal production.
- Develop procedures for exhibiting animals.
- Compare, select, and use plant production systems.
- Investigate proper methods to fertilize plants and crops.
- Operate, maintain, and service facilities, tools, and equipment.
- Apply principles of agribusiness finance.
- Students evaluate the importance of the food and fiber system to understand the impact on the global economy.
- Examine the scope of career opportunities in and the importance of agriculture to the economy.

AGRITECHNOLOGY 2

- Analyze the scope of the Agriscience industry.
- Recommend steps for proper animal health and nutrition.
- Select, and use plant production systems.
- Fertilize plants and crops.
- Irrigate plants and crops.
- Control plant pests.
- Maintain, and service facilities, tools, and equipment.
- Describe procedures for harvesting and marketing agricultural products.
- Compare principles of agribusiness finance.
- Explain the components of the American business system.
- Investigate agricultural cooperatives structure and function.