

What are students saying about the program?

“I feel I have learned a significant amount of information about various areas of agriculture... the things we have learned have more of a real world application than most other classes.” –Junior

“One of my favorite things we learned about this year was FFA. I really enjoyed this section on FFA because it is all about giving young adult the skills they’ll need later in life.” –Freshman



“I look forward to something new every day and hope what I learn I can either apply to it at home or pass it on to others.” –Freshman

“From the beginning of the school year I thought that this class was just an elective and that it was not important but this class is just the same as a core class...Throughout this semester the thing I liked doing the most was labs.” –Sophomore



For more information, please contact:

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Plant Biotechnology Pathway

University High School

S.T.E.M. Academy



Growing your Potential in Plant Biotechnology



About the Program

Plant biotechnology is taking the field of agriculture in a new direction. Students enrolled in the plant biotechnology pathway will gain advanced laboratory knowledge, skills, and real-world experiences with an agricultural twist.



Students will engage in learning a wide range of agricultural, scientific, and technology-related concepts throughout the course of the program.

Examples include:

- Explore entomology and soil science as it relates to forensic science
- Investigate the use of genetic engineering among the crop and livestock industries
- Discover the influence of plants and animals on the medical industry and development of pharmaceuticals
- Explore the impact of biotechnology on the food industry

This exciting program will prepare students for college, as well as workforce preparation in the field of science and beyond.

Course Offerings

Agriscience Foundations 1

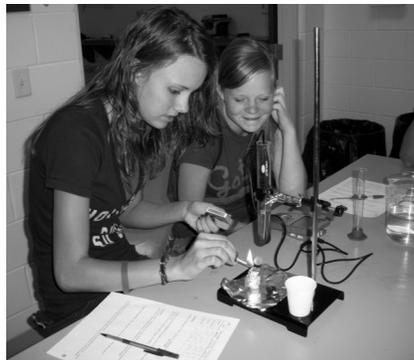
This prerequisite course is designed to present an overview of the agriculture industry, by teaching students about the historical evolution of agriculture, the basics of plant and animal science, leadership and workforce readiness skills, while integrating technology, biological and physical science concepts.

Agricultural Biotechnology 2

This course is designed to develop competencies in both plant and animal biotechnology, integrate related laboratory practices such as gel electrophoresis and DNA extraction, and provide an introduction to the biotechnology industry including related careers.

Plant Biotechnology 3

Students will learn the core principles of plant growth and reproduction, the role of plants in the environment, and specifically, develop skills in current plant biotechnology practices such as micropropagation.



University FFA

The University FFA chapter has been established and is off to an exciting start! Students enrolled in Agriscience-Biotechnology will have the opportunity to join and participate in chapter meetings, contests, fundraisers, community service projects, and leadership development events.



The National FFA Organization gives away over two million dollars in scholarships every year for high school students. As members of this organization, students will be eligible to earn money for college or school-related projects, such as Supervised Agricultural Experience programs.