



## FFA at University

Those that are in Environmental Technology Academy can participate in the activities of University's FFA chapter. This includes meetings, contests, fundraisers, community service projects, and developing leadership.

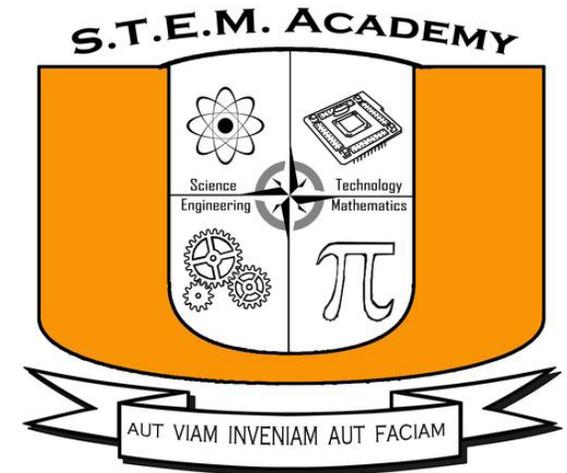
FFA participants can earn free funding for college or school projects and potentially receive scholarships from the National FFA Organization, which donates 2 million dollars in scholarships each year.

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**Follow the Creed**  
**Courage**  
**Strength**  
**Knowledge**  
**Respect**

## Environmental Technology



### *Motto*

*Aut Viam Inveniam Aut Faciam*

### *Translation*

*I'll either find a way or make one*

## Real-World Experience

Some of the things that students in the Environmental Technology path learn are:

- Learn to manipulate cells at the genetic level to improve the survivability of crops
- 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
- Explore soil science to improve crop yield and survivability.



## 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 technological, 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.

## Environmental Resources 3

This course is designed to develop competencies in the areas of water resources, native flora and fauna, Florida ecosystems, soil characteristics, and collecting, recording and analyzing data.

## Environmental Resources 4

This course is designed to develop competencies in the areas of land management, weather systems, wildlife programs, commodity and non-commodity resources, sustainable agriculture and environmental research.

## Ongoing Projects

Environmental Tech STEM Academy provides students the opportunity to apply what they learn in the classroom to solve real-world problems.

- Eldora Statehouse Shoreline Restoration Project: Working with Dr. Linda Walters and her graduate students at UCF, students are working to design, implement, and monitor a long-term shoreline restoration plan in Canaveral National Seashore.
- Student-Run Farmer's Market
- Student gardens in Land Lab
- Greenhouse
- Designing and building birdhouses to donate to conservation lands
- Supervised Agricultural Experiences
- Biotechnology Certification