



Agricultural Education Program

Offered by Harrisburg University and Funded by The Faile Foundation

- Students and their families will be introduced to 21st century agriculture.
- All content in English and Spanish

SUMMER 2022

Aquaponics Week- Long Summer Exploration Camp



SCHOOL YEAR 2022-2023

Introduction to Controlled Environment Agriculture



SCHOOL YEAR 2022-2023

Horticultural Science and Principles



**Steelton-Highspire School District
Aquaponics Greenhouse**

**Whitaker Center – Harrisburg University
Student Union**

These camps are offered at a variety of times, including afterschool and summer. Please visit the Enrichment Website for all the details regarding offerings and for registration.

Students can register for the Exploration Programs at: <https://enrichment.HarrisburgU.edu/>

For registration and questions email:
Danielle Schaufert | DSchaufert@HarrisburgU.edu

Summer 2022

Aquaponics Week-Long Summer Exploration Camp

Aquaponics Summer Exploration Camp and Event

Aquaponics is a method of growing plants hydroponically by using nutrient-rich water from aquaculture as the source of nutrients. The recirculating aquaculture system located within the greenhouse at the Steelton-Highspire School District (SHSD) will serve as a living laboratory where students will explore biology, plant propagation, water chemistry, engineering design, and agricultural technology opportunities. Friday morning will occur at the SHSD Aquaponics Lab for a prototype build that will allow participants to use the prototype at home. In addition, students and their families are invited to spend the afternoon touring the new Aquaponics Lab at Harrisburg University's Student Union at the Whitaker Center. Lunch and a University tour will be provided.

**Steelton-Highspire School District
Aquaponics Greenhouse**

**Whitaker Center – Harrisburg University
Student Union**

Friday | Lunch, Program Completion Celebration, and Admissions Event to be held on the last day of camp.

School Year 2022-2023

Introduction to Controlled Environment Agriculture

ENVS 110 Introduction to Controlled Environment Agriculture | 1 Credit

Online delivery with materials delivered for hands-on activities

This course presents an introduction to the environment and economic benefits of controlled environment agriculture (CEA) as well as the relevant scientific principles as they apply to the CEA field, including the areas of aquaponics, hydroponics, vertical farming, etc. The business and management of running a CEA facility will also be introduced.

School Year 2022-2023

Horticultural Science and Principles

ENVS 120 Horticultural Science and Practices | 3 credits

Pre-requisite: ENVS 110 Introduction to Controlled Environment Agriculture
Hybrid Course - online delivery with in person hands-on activities

This course presents scientific knowledge to support the practical application of horticulture to propagate plants; enhance plant growth and development; control the plant growth environment; and manage pests through integrated pest management. Throughout the course, different areas of horticulture will be examined including controlled environment agriculture vs. outdoor growing; hydroponic vs. soil production; and organic vs. conventional agriculture.
