



AQUAPONICS

Introduction to Aquaponics

Aquaponics, a method of food production that combines conventional aquaculture (raising fish) with hydroponics (soil-less growing of plants), provides a sustainable method of growing diverse crop species.

One of the coolest things about aquaponics is that it mimics a natural ecosystem. Aquaponics represents the relationship between water, aquatic life, bacteria, nutrient dynamics, and plants which grow together in waterways all over the world. Taking cues from nature, aquaponics harnesses the power of integrating these individual components by exchanging the waste byproduct from the fish as a food for the bacteria, to be converted into a useable fertilizer for the plants, to return the water in the clean and safe form to the fish.

These online camps are designed to educate students about aquaponics, a method of growing plants hydroponically by using wastewater from aquaculture as the source of nutrients. Students will engage in activities to explore biology, plant propagation, water chemistry and engineering design with guided hands-on activities. Students will receive materials delivered to their home for their investigations. They will also participate in a virtual tour of the aquaponics facilities that serve as a living laboratory.

Offered by Dr. Rachel Fogle and the Aquaponics Team

These camps are offered at a variety of times, including afterschool and summer. Please visit the [Enrichment Website](https://enrichment.HarrisburgU.edu/) 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