



LEARNING CENTER

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Introduction to Aquaponics: Dynamic Science for the K-8 Classroom

Summer 2018

July 10th - 12th

Location: Port Clyde, Maine

Aquaponics is the cultivation of plants and aquatic animals in a recirculating environment. A combination of aquaculture and hydroponics, aquaponics pairs fish and plants in one integrated system. Fish waste provides a food source for the growing plants and the plants provide a natural filter for the water the fish live in. This creates a sustainable ecosystem where both plants and fish can thrive.



"I would advise any teachers of any grade level to take this course...This was a great, well-paced experience, one of the best I've done...Now I can visualize and begin integrating aquaponics lessons throughout the year." ~ 2013 participants

The workshop includes • 2.5 days of hands-on teacher training in aquaponics • A complete classroom aquaponics kit including tank, filter, pumps, planting materials and an operating manual • Standards-based aquaponics curriculum materials that will engage and motivate your students • 1.5 CEU's available through the University of Southern Maine or 15 contact hours

- Learn about the business of aquaponics and its role in feeding our growing population.
- Explore the many ways aquaponics can be easily integrated into your science classes to meet content standards.
- Participate in hands-on lessons and experiments that use aquaponics to demonstrate water and nitrogen cycles, plant biology, fish anatomy, math, chemistry and ecology to students.
- Set up and take home your own classroom aquaponics kit – a complete recirculating aquaculture system with tank, filters, pumps and planting media that will change the way you teach science.
- Enjoy a relaxing and informative evening nature cruise or kayaking tour around Muscongus Bay.

Your instructors will be Heather Richard and Katie May Laumann, two of Herring Gut's teachers and aquaponics specialists. Heather and Katie May instruct middle and high school students in aquaponics classes and have developed extensive curriculum of hands on lessons that incorporate science, math, business, and language arts into hatchery and greenhouse management.

Tuition for the entire course, all materials and supplies is \$650.00. It also includes a continental breakfast and an evening cruise or kayaking tour around Muscongus Bay. Housing is available for \$150 on a first come, first serve basis in a historic farmhouse on Herring Gut's waterfront campus in Port Clyde. Classes and activities are balanced with time to enjoy the village and surrounding area.

FMI and to Register: <http://www.herringgut.org/forteachers.html>

Herring Gut Learning Center admits students of any race, color, national or ethnic origin