

Aquaculture / Aquaponics 101 Teacher Workshop

[Video about the workshop](#)

June 9-13, 2014 – Auburn, Alabama

[Teacher reactions to the workshop](#)



Aquaponics is being utilized in classrooms across the country to excite and engage students and teachers. Aquaponics is the art/science of growing fish and plants in a symbiotic relationship in a single system. It is a combination of aquaculture and hydroponics. The fish are fed a high quality prepared diet and their waste is used as fertilizer to grow plants. The plants in turn act as a filter to clean the water that can be returned to the fish tank. There is tremendous interest in Aquaponics and aquaculture as a platform to teach real world applications of biology, chemistry, math and science. Working with an aquaponics system also requires technical skills in plumbing, carpentry and sometimes masonry. It is an excellent tool to examine the different elements of business management and marketing.

The trouble is that most teachers don't have any training in aquaponics. The **Aquaculture/Aquaponics 101 Workshop** provides hands-on training and expert advice on how to start and operate an aquaponics system and provides resource materials to help integrate the knowledge into existing curriculum. Teachers will design and build a complete aquaponics system that they can take back to their school. Expert instruction is provided by faculty from Auburn University, the Alabama Cooperative Extension System, Gadsden State Community College and the Alabama, Mississippi Sea Grant Consortium.

The workshop will be held at the E.W. Shell Fisheries Center, June 9-13th, 2014 in Auburn, Alabama. The cost for the workshop is \$265 and 32 hours of continuing education credit is available. **For more information visit: www.alearn.info**



The AU Fisheries and Aquaculture program world renowned for its teaching, research and Extension efforts. The facility is the largest of its kind in the world with over 1800 acres, 350 ponds, and nearly 2,000 aquaria.

For more information contact David Cline 334-844-2874, Hugh Hammer 256-549-8345 or PJ Waters 251-438-5690

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Aquaponics 101 Teacher Training Workshop



When: June 9-13th, 2014. 9:00am to 5:00 pm daily

Where: (Physical) Auburn University
E.W. Shell Fisheries Center
2101 North College St.
Auburn, AL 36830

(Mailing) 203 Swingle Hall
Auburn University, AL 36849

Cost: \$265 to attend the workshop
This includes resources that previous teachers felt were worth \$400+
(Travel and living expenses not included)

CEUs: **3.2 continuing education credits for 32 hours of contact time**

Capacity: Due to the **hands-on** nature of the workshop seating is **limited to 30 participants** Please
[Register Online Here](#) Or Call John Freeze 334-844-5100

Information: David Cline (AU) 334-844-2874 - clinedj@auburn.edu
Hugh Hammer (GSCC) at 256-549-8345 - hhammer@gadsdenstate.edu
P.J. Waters (AU-Sea Grant) 251-438-5690 - Waterph@auburn.edu

Topics Addressed Include		
Biology	Chemistry	Math
Aquaponics – Integrating plant and fish culture	Nitrogen cycle – ammonia, nitrite, nitrate	Nutrient input vs. grow bed capacity
Catfish and tilapia morphology	Dissolved oxygen	Volumetric displacement
Fish culture techniques	Alkalinity	Feeding rates
Pond dynamics	PH	Feed conversion and growth rate
Diseases of warm water fish	Hardness	Tank and system volumes
Fish hatchery operations	Temperature effects	Surface area of biofilter material
Components and functions of a recirculating aquaculture system	Water quality relationships	How to correctly size a biofilter
Fish genetics (super male tilapia)	And Many Other Topics	Average weights

Aquaponics 101 - Pre- Registration Form
Teacher Workshop June 9-13, 2014
Seating limited to first 30 people
Register early to guarantee your seat

Register Online at: <https://mell-base.uce.auburn.edu/CourseStatus.awp?&course=C140609>

or

Mail this form with your payment to: Aquaculture /Aquaponics workshop Registration
Payable to Auburn University c/o Office of Professional and Continuing Education
If paying with purchase order 301 O.D. Smith Hall
PO Number _____ Auburn University, AL 36849

Name: _____

Home Address: _____

Home phone: _____

School: _____

School address: _____

School phone: _____

E-mail address: _____

Grades taught: _____

Courses taught: _____

Briefly describe the current aquaculture facilities available at your school. _____

If you have questions contact
Registration: John Freeze, 334-844-5100, (AU Outreach) jmf0013@auburn.edu
Technical Info: David Cline, 334-844-2874 (AU, ACES) - clinedj@auburn.edu
Hugh Hammer 256-549-8345 (GSCC) - hhammer@gadsdenstate.edu
PJ Waters, 251-438-5690 (Sea Grant, ACES, AU) Waterph@auburn.edu

Workshop sponsored by Alabama Cooperative Extension System, Gadsden State Community College, Auburn University, Auburn Marine Extension and Research Center, Mississippi-Alabama Sea Grant Consortium