

July 11-15, 2022



ALABAMA A&M & AUBURN UNIVERSITIES





AUBURN UNIVERSITY

SCHOOL OF FISHERIES, AQUACULTURE AND AQUATIC SCIENCES

Monday, July 11, 2022 Moderator: David Cline

8:30 - 9:00	Coffee and Pastries	AN AN
9:00 - 9:15 David Cline	Welcome - Housekeeping	
9:15- 9:30	Teacher Pre-test	David Cline
9:30- 10:10	Introduction to Aquaponics	Mollie Smith
10:10 - 10:20	BREAK	
10:20 - 11:00	Integrating Aquaponics into the curriculum	David Cline Stan Arington
11:00 - 12:00	Recirculating Systems Components and Functions	David Cline
12:00 - 1:00	LUNCH On Your Own	
1:00 - 2:15	Aquaculture Station Tour	David Cline
2:00 - 2:30	Sizing the Bio-filter and Worksheet	PJ Waters
2:30 - 5:00	Small System Description and Assembly (break as need	led) Stan Arington Team Leaders

Tuesday, July 12, 2022 Moderator: Stan Arington

8:00 - 9:00	Finish Small System Assembly	Team Members
9:00 - 10:30	Introduction to Water Quality	David Cline
10:30 - 10:45	BREAK	
10:45 - 12:00	Water Quality Hands On	David Cline
12:00 - 1:00	Lunch	
1:00 - 2:00	Water Quality Interpretation	David Cline
2:00-3:00	Volumetric Displacement Lab	PJ Waters
3:00 - 3:15	Break	
3:15 - 5:00	Hands-on activity or IBC Build	Team Leaders





Wednesday, July 13, 2022 Moderator: PJ Waters

8:00 - 8:40	Catch up time	
9:00 - 11:30	Field Trip to Aquaponics Operations	
Lunch		
1:00 - 2:15	Starting Plants from Seeds & Hydroponics solutions	Mollie Smith
2:15 - 2:30	BREAK	
2:30-4:00	Physics lesson/lab activity & Discussion	David Cline Team Members
4:00 - 5:00	System Assembly	Team Members

Thursday, July 14, 2022 Moderator: PJ Waters

8:00 - 9:00	System Assembly	Team Members
9:00 - 10:00	Fish Health, Stress, and Disease	Tim Bruce
10:00 - 10:15	BREAK	
10:15 - 11:00	Catfish and Tilapia Dissection	Tim Bruce
11:00 - 12:00	Plant Selection for Aquaponics	Daniel Wells
12:00 - 1:00	Lunch On Your Own	
1:00 - 2:00	Plant Health	Daniel Wells
2:00 - 2:15	BREAK	
2:15 - 3:00	Fish in a bottle / Lesson Plans	Stan Arington
3:00 - 5:00	Hands-on Activity	Team members





Friday, July 15, 2022 **Moderator: Dave Cline**

8:15 - 9:30	Making sure your veggies are safe to eat	Kristen Woods
		Camila Rodrigues
9:45-10:30	Scaling –up your Aquaponics Operation	David Cline
10:30- 11:15	Careers in Fisheries/ Aquaculture/ Aquatic Sc	iences Group
11:015 - 11:45	Post-test and Evaluations	David Cline
11:45-12:00	Awards Ceremony	Team Leaders
12:00	Adjournment	David Cline

Workshop Presenters

David Cline Associate Extension Professor, Aquaculture ACES / AU- SFAAS Auburn, AL

Tim Bruce, Ph.D. Assistant Professor, Animal Health AU-SFAAS

Daniel Wells, Assistant Professor Department of Horticulture, AU

Kristin Woods, ACES REA- Hort & Food Safety

Daniel Wells - Vertical Gardens Rebecca Balkcom - AHS Field Trip

P. J. Waters Associate Extension Professor **AUMERC/ Sea Grant** Mobile, AL

Stan Arington Visitor Learning Center, Director Auburn University

Mollie Smith. Aquaponics Systems Mgr.

Camila Rodrigues, Asst. Professor ACES-Specialist, Hort & Food Safety

Larry Lawson, **Superintendent AU Fisheries Station**



