

**\*\*Schedule is subject to change, but start/end times will be held constant.\*\***

# **October 2017 Hydroponic Greenhouse Intensive Workshop**

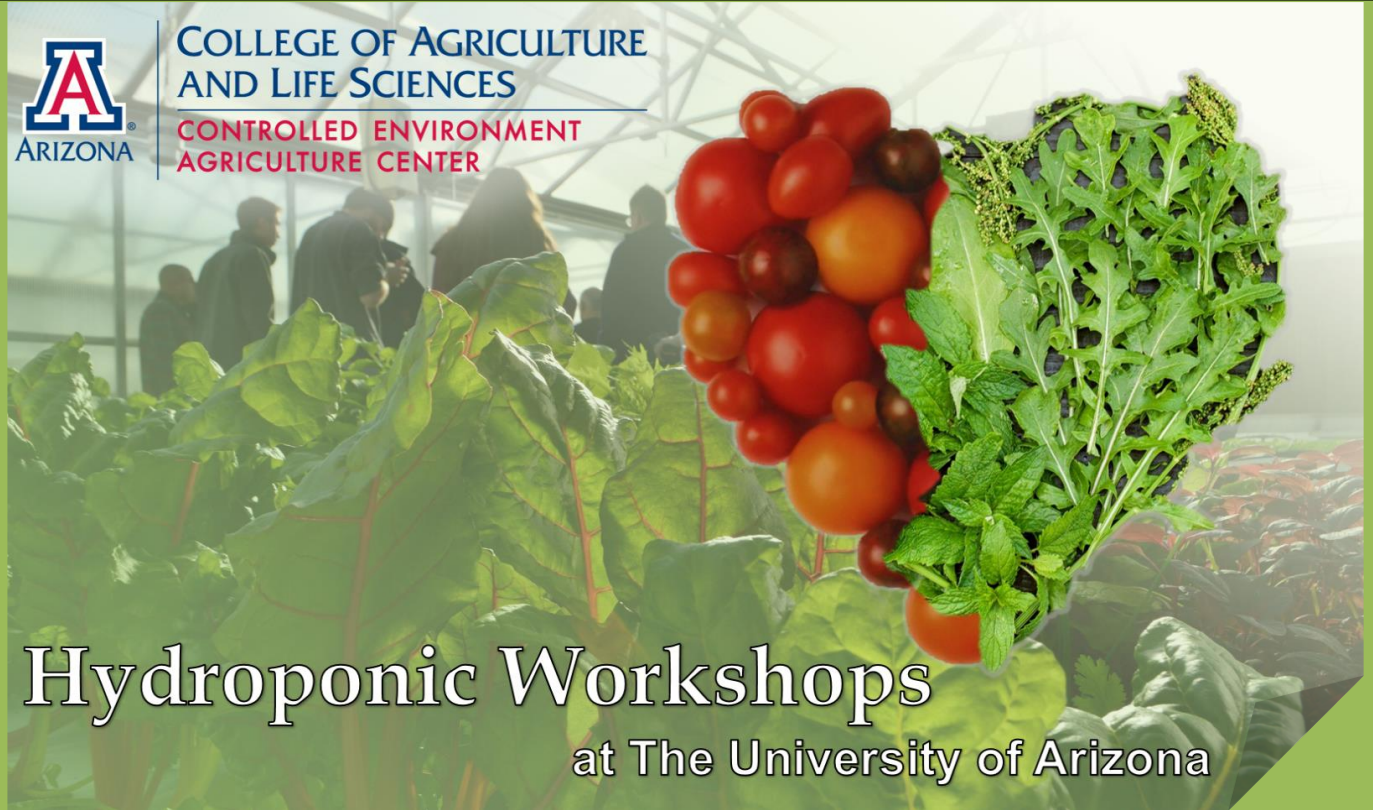
**Oct 13<sup>th</sup> 12pm through Oct 16<sup>th</sup> 7pm**

*Hosted by University of Arizona Controlled Environment Agriculture Center  
Administered by Arizona Vegetable Company*



**COLLEGE OF AGRICULTURE  
AND LIFE SCIENCES**

**CONTROLLED ENVIRONMENT  
AGRICULTURE CENTER**



## **Hydroponic Workshops** at The University of Arizona

### **HYDROPONIC LETTUCE PRODUCTION**

Instructor – Myles Lewis

Controlled Environment Agriculture Center  
1951 East Roger Road Tucson, Arizona 85719

#### **Course materials:**

- Google Drive Access to class materials.
- Folder with handouts and supplies.
- Closed-toe shoes, hat, sunscreen

**Myles Lewis** is a young professional with 10+ years of experience working with a variety of greenhouse systems and crops. His focus has been on transplant, vegetable, and herb production in controlled environments such as greenhouses and growth chambers. Implementing modern agricultural techniques and systems for food production in traditional and non-traditional locations.



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## ***Friday October 13<sup>th</sup>, 2017 12pm to 7pm***

***\*Lunch Provided\****

**Introduction and tours of lettuce production systems / Pros & cons**

**Common Questions**

**Greenhouse Basics**

- Greenhouse site selection
- Greenhouse designs & materials
- Environmental control – including sizing heaters & fans

**A bit about greening the greenhouse**

**Deciphering your greenhouse – “Virtual Grower”**

**Food safety & GHP/GAP certification**

- Safe production & handling procedures

## ***Saturday October 14<sup>th</sup>, 2017 – 8am to 7pm***

***\*Light Breakfast Provided\****

**Crop registration forms**

- What to measure & what it means

**Environmental control & system maintenance & monitoring**

- Set-points and setup
- Monitoring methods
- System maintenance
- How the environment effects the plants and vice versa
- Real-time monitoring – CEAC/tomatoes live

***\*Lunch Provided\****

**Propagation**

- Substrate choices and starting materials
- Seeds and seeding
- Germination conditions
- Scheduling
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## ***Sunday October 15<sup>th</sup>, 2017 – 9am to 7pm***

***\*Light Breakfast Provided\****

### **Growing Lettuce**

- Nutrition
- Spacing and layout
- Crop maintenance and monitoring
- Harvesting

### **IPM, Disease, and deficiencies**

- Common pests and treatment procedures
- Diseases common to production
- Nutrient deficiencies

### **Post-harvest & Food safety**

- Post-harvest procedures
- Packaging, storage, and shipment
- Food safety procedures

### **Certifications & GHP / GAP**

- GHP / GAP
- Certified Naturally Grown, Organic, and other labels
- Audits, check-ups, and maintenance of certifications
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## ***Monday October 16<sup>th</sup>, 2017 – 8am to 7pm***

***\*Light Breakfast Provided\****

### **Economics of production**

- Materials costs and consumption
- Operating costs
- Financials

***\*Lunch Provided\****

### **Business Plans, Marketing, and sales**

- Business planning
- Marketing

### **Customers and Selling**