October 2017 Hydroponic Greenhouse Intensive Workshop

Oct 13th 12pm through Oct 16th 7pm

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

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

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

## Friday October 13th, 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 14th, 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
**Schedule is subject to change, but start/end times will be held constant.**

### Sunday October 15th, 2017 – 9am to 7pm

*Light Breakfast Provided*

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
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| 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 |

### Monday October 16th, 2017 – 8am to 7pm

*Light Breakfast Provided*

*Lunch Provided*

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| Economics of production | - Materials costs and consumption  
- Operating costs  
- Financials |
| Business Plans, Marketing, and sales | - Business planning  
- Marketing |
| Customers and Selling | - |