Friday, January 6th

Morning (Online and In-Person)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>9:00 am–10:00 am</td>
<td>Introductions &amp; History of the CEAC</td>
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</tbody>
</table>
| 10:00 am–11:00 am | Overview of Controlled Environment Agriculture (CEA) and Hydroponic Vine Crop Production  
                      *Tomato, Pepper, Cucumber, and Melons*                                    |
| 11:00 am–12:00 pm | Hydroponic Propagation  
                      *Seeds, substrate, environment, and transplanting*                        |

Afternoon (In-Person Only)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>12:00 pm–1:00 pm</td>
<td>Lunch</td>
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<tr>
<td>1:00 pm–2:00 pm</td>
<td>UA-CEAC Facilities Tour</td>
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<tr>
<td>2:00 pm–3:00 pm</td>
<td>Hands-On Hydroponic Vine Crop Propagation</td>
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<tr>
<td>3:00 pm–4:00 pm</td>
<td>Teaching Greenhouse Tour</td>
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<tr>
<td>4:00 pm–5:00 pm</td>
<td>Hands-On Hydroponic Vine Crop Transplanting</td>
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</tbody>
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Saturday, January 7th

Morning (Online and In-Person)

9:00 am–10:00 am  Hydroponic Nutrient Solutions and Substrates
Nutrient solution recipes, fertigation, plant nutrition and
nutrient deficiencies, different hydroponic substrates and
their characteristics

10:00 am–11:00 am  Plant Response to Light and Environmental Factors
Light quantity and quality, sole-source and supplemental
lighting, PAR and ePAR, DLI, temperature, humidity,
VPD, and CO₂

11:00 am–12:00 pm  Vine Crop Morphology, Physiology, and Plant
Steering
Plant anatomy, photosynthesis, transpiration and
respiration, plant growth types, and pruning for optimal
production in CEA and hydroponics

Afternoon (In-Person Only)

12:00 pm–1:00 pm  Lunch and Open Discussion

1:00 pm–2:00 pm  Hands-On Nutrient Solution Stocks, Fertigation,
and EC/pH Measurements

2:00 pm–3:00 pm  Hands-On Greenhouse Sensors and Controls

3:00 pm–3:30 pm  Break

3:30 pm–5:00 pm  Hands-On Vine Crop Steering
Sunday, January 8th

Morning (Online and In-Person)

9:00 am–10:00 am Integrated Pest Management (IPM) for CEA and Vine Crops
*Mechanical, cultural, biological, and chemical control for common pests and diseases in CEA vine crops*

10:00 am–11:00 am Vine Crop Pollination and Fruit Production
*Flower morphology, bumblebees, fruit development, harvesting, grading, marketing, and food safety*

11:00 am–12:00 pm Review and Q&A

Afternoon (In-Person Only)

12:00 pm–1:00 pm Lunch

1:00 pm–2:00 pm Hands-On IPM and Beneficials

2:00 pm–3:00 pm Hands-On Beehive and Pollination

3:00 pm–3:30 pm Break

3:30 pm–5:00 pm Hands-On Harvesting, Grading, BRIX, and Tasting Vine Crops