### Friday, January 6<sup>th</sup>

#### Morning (Online and In-Person)

9:00 am–10:00 am Introductions & History of the CEAC

10:00 am—11:00 am Overview of Controlled Environment Agriculture

(CEA) and Hydroponic Vine Crop Production

11:00 am–12:00 pm Hydroponic Propagation

Seeds, substrate, environment, and

transplanting

#### **Afternoon (In-Person Only)**

12:00 pm—1:00 pm Lunch

1:00 pm-2:00 pm UA-CEAC Facilities Tour

2:00 pm—3:00 pm Hands-On Hydroponic Vine Crop Propagation

3:00 pm-4:00 pm Teaching Greenhouse Tour

4:00 pm—5:00 pm Hands-On Hydroponic Vine Crop Transplanting

# **Hydroponic Vine Crop Intensive Workshop**

### 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 CO<sup>2</sup>

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



## **Hydroponic Vine Crop Intensive Workshop**

### 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 Fruit, and Tasting

Vine Crops