Friday, January 6th

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
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 Fruit, and Tasting Vine Crops