

# Greenhouse



BIOSYSTEMS ENGINEERING  
Controlled Environment  
Agriculture Center

## Engineering Design & Crop Production

Online & In-Person  
April 15<sup>th</sup> - 17<sup>th</sup>, 2026

# Short Course

Sustainability and Innovation in CEA

## Day 1: Fundamentals Of CEA and Hydroponics | Wednesday, April 15th

8:00 am - 8:45 am	<b>Check-in for on-site participants</b>
8:45 am - 9:00 am	<b>Welcome and Introductions</b> Dr. Murat Kacira - CEAC Director, Interim Head and Professor, Biosystems Engineering Department, The University of Arizona
9:00 am - 9:45 am	<b>Greenhouse Design Basics</b> Dr. Gene Giacomelli - Professor, Biosystems Engineering, The University of Arizona
9:45 am - 10:00 am	<b>Discussion and Q&amp;A</b>
10:00 am - 10:45 am	<b>Climate Control</b> Dr. Murat Kacira - CEAC Director, Interim Head and Professor, Biosystems Engineering Department, The University of Arizona
10:45 am - 11:00 am	<b>Discussion and Q&amp;A</b>
11:00 am - 11:30 am	<b>Break &amp; Exhibitor Networking</b>
11:30 am - 12:15 pm	<b>Integrated Pest Management</b> Dr. Triston Hooks - Assistant Professor, Biosystems Engineering, The University of Arizona
12:15 pm - 12:30 pm	<b>Discussion and Q&amp;A</b>
12:30 pm - 1:30 pm	<b>Lunch</b>
1:30 pm - 2:15 pm	<b>Hydroponic Plant Production Basics</b> Dr. Triston Hooks - Assistant Professor, Biosystems Engineering, The University of Arizona
2:15 pm - 2:30 pm	<b>Discussion and Q&amp;A</b>
2:30 pm - 3:00 pm	<b>Sponsor Presentations</b>
3:00 pm - 4:30 pm	<b>CEAC Tour Day 1</b> Teaching Greenhouse & AdvanCEA Greenhouse



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### Day 2: Sustainability and Innovation in CEA| Thursday, April 16th

9:00 am - 9:45 am	<b>Data Driven Resource Use Efficient Climate Control in Greenhouses</b> Mats Kleemans, Customer Success Manager, Hoogendoorn
9:45 am - 10:00 am	<b>Discussion and Q&amp;A</b>
10:00 am - 10:45 am	<b>Space Crop Production Gaps and Challenges</b> Dr. Gioia Massa, Project Scientist, NASA Kennedy Space Center
10:45 am - 11:00 am	<b>Discussion and Q&amp;A</b>
11:00 am - 11:30 am	<b>Break &amp; Exhibitor Networking</b>
11:30 am - 12:15 pm	<b>Organic Herb Production in Vertical Farming System</b> Erico Mattos , Research & Development Program Manager, SoliOrganics/80AcresFarms
12:15 pm - 12:30 pm	<b>Discussion and Q&amp;A</b>
12:30 pm - 1:30 pm	<b>Lunch</b>
1:30 pm - 1:45 pm	<b>CEAC Mission Award</b>
1:45 pm - 2:45 pm	<b>Sustainability and Innovation in CEA</b> Mats Kleemans, Jose Chen Lopez, Dr. Matthew 'Rex' Recsetar
2:45 pm - 3:15 pm	<b>Sponsor Presentations CEAC</b>
3:15 pm - 4:30 pm	<b>Tour Day 2</b> Mushroom Lab Mars Lunar Greenhouse



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## Day 3: Microgreens, Aquaponics, and Mushrooms Production in CEA | Friday, April 17th

9:00 am - 9:45 am

### Microgreens and Herb Production in CEA

Dr. Kellie Walters, Assistant Professor, University of Tennessee

9:45 am - 10:00 am

### Discussion and Q&A

10:00 am - 10:45 am

### Berry Production in CEA

Karla Garcia, Technical Service Specialist, Hort Americas

10:45 am - 11:00 am

### Discussion and Q&A

11:00 am - 11:30 am

### Break & Exhibitor Networking

11:30 am - 12:15 pm

### Mushrooms in CEA

Bree Gomez, Research Specialist, Biosystems Engineering, The University of Arizona

12:15 pm - 12:30 pm

### Discussion and Q&A

12:30 pm - 1:30 pm

### Lunch

1:30 pm - 2:15 pm

### Aquaponics in CEA

Dr. Matthew Recsetar, Assistant Professor, Biosystems Engineering, The University of Arizona

2:15 pm - 2:30 pm

### Discussion and Q&A

2:30 pm - 4:00 pm

### CEAC Tour Day 3

Aquaponics Greenhouse & Vertical Farm



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