

# Annual Greenhouse Crop Production & Engineering Design Short Course

Monday, April 9, 2012 to  
Saturday, April 14, 2012

Westward Look Resort  
Tucson, Arizona USA

Controlled  
environment  
agriculture for food  
production within  
traditional rural and  
non-traditional urban  
farms, with special  
concerns for water,  
energy use and  
environmental  
stewardship



**Special Guest Presenter:**  
**Dr. James Rakocy,**  
**Worldwide Aquaponics Specialist**



### **Course Sessions Include\*:**

- Greenhouse Engineering: Structures & Design
- Greenhouse Site Selection
- Environmental Control
- Controlled Environment Agriculture (CEA)
- Hydroponics
- Aquaponics
- Fertigation Management
- Pollination and Bees Management
- Plant Nutrition Basics:
- Nutrients & Nutrient Deficiencies
- Critical Factors in Irrigation Management
- Bringing the Farm to the City: From Rooftops to Restaurants
- Specialty Crops and Local Foods
- Enhancing Produce Quality & Nutritional Value of Greenhouse Crops
- Getting Started in Urban Farming: Advantages and Challenges

<http://ag.arizona.edu/ceac>  
<http://www.westwardlook.com/>

### **Who Are Short Course Attendees?**

Entrepreneurs, Small Business Owners, Educators, Urban Planners, Greenhouse Engineers, Company Trainees, International Representatives, Researchers, Growers, Horticulturists, Urban Agriculturists, Entomologists & YOU!

### **FULL SHORT COURSE at a Glance**

- Mon: Registration, Welcome Reception, Exhibitor Gallery opens  
Tue: Course Lectures  
Wed: Course Lectures, CEAC Awards Dinner  
Thu: **All Day Focus on Aquaponics\***  
Fri: Hands-on Workshops at The University of Arizona Controlled Environment Agriculture Center  
Sat: Optional Tour to Willcox Greenhouses (**NEW** tour site)

\* Thursday's Aquaponics Day is included as part of the **Full Short Course**.

**New:** Thursday's Aquaponics Day is also offered as a **One-Day-Only** Program to those not registered for the Full Short Course. Limited seating. (*Separate Registration and Fee apply.*)



2012 Short Course is presented & organized by:  
The University of Arizona  
College of Agriculture and Life Sciences  
Dept of Agricultural & Biosystems Engineering  
School of Plant Sciences  
Controlled Environment Agriculture Center  
Tucson, Arizona USA  
**Gene A. Giacomelli, PhD, Director CEAC**



### **Registration and Fees**

Early cut-off date: March 2, 2012

#### **Full Short Course Registration:**

- ☐ \$550.00 early per person
- ☐ \$600.00 regular per person

#### **2<sup>nd</sup> or more person in group:**

- ☐ \$500.00 early per 2<sup>nd</sup> + person
- ☐ \$550.00 regular per 2<sup>nd</sup> + person

#### **Thursday Only: One Day Aquaponics:**

- ☐ \$175.00 early per person
- ☐ \$200.00 regular per person

#### **Optional Saturday Tour to Willcox Greenhouses (NEW tour site this year!):**

- ☐ \$60.00 per person

(Includes transportation, tour, lunch & afternoon refreshments)

#### **3 CEU Credits Available (Full Course Only):**

- ☐ \$25.00 per person

Visa, MasterCard, Discover, American Express or Check/Money Order:  
Payable to: The University of Arizona/CEAC

Click for More Information:

[2012 Short Course Fillable Registration Form](#)

[Exhibitor and Sponsorship Information](#)

[Course Coordinator: Liz MacLellan](#)  
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