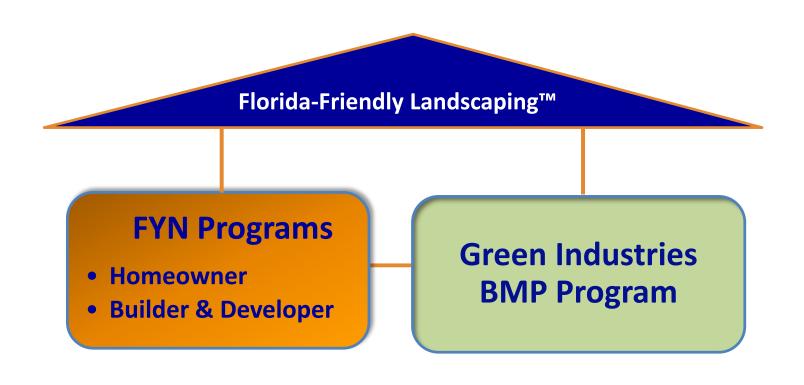
Florida-Friendly Landscaping™ Program Update

Esen Momol, Don Rainey, Claire Lewis, CJ Bain, John Bossart, Jen Marvin, Kelly Perez, Elisha Cash, Marilyn Liebsch, Diana Juarez, and Lyn Ward





Florida-Friendly LandscapingTM Program









Florida-Friendly Landscaping™ LEGISLATURE

♦ Mandatory- Chapter 482.1562, F.S. GI-BMP

♦ Voluntary- Chapters 373.185, 720.3075, F.S.FYN









SAVING FLORIDA'S WATER SUPPLY, DROP BY DROP

UF/IFAS Extension's
Florida-Friendly
Landscaping™ (FFL)
program and the
Center for Landscape
Conservation & Ecology
(CLCE) partner with
state agencies, local
governments, and
nonprofit
organizations to
safeguard our water for
future generations.





- *Water 2070 project (FDACS, UF Geoplan Center, 1000 Friends of Florida)
- **U.S. Environmental Protection Agency (EPA), 2015
- ***Borisova et al. February 2017. Estimating Benefits of Residential Outdoor Water Conservation: A Step-by-Step Guide.

WATER DEMAND

Water demand already exceeds supply in some parts of Florida, and projections show the state could double its current water usage by 2070 if population growth, water-use habits, and irrigation practices do not change.*



At least

50%

of Florida household water usage is for landscape irrigation.



The average U.S. household spends more than

\$1,000 per year on water.**

WATER CONSERVATION

In 2016,

87,000

residents participated in water conservation programs, taught by

76 UF/IFAS Extension faculty statewide.

Follow-up surveys showed...

93% reduced irrigation to 2 days/week

90% reduced irrigation in winter months

reduced irrigation if adequate rainfall

69% switched to low-maintenance plants

50% installed a rain barrel or cistern

started using a rain gauge

MAKING AN IMPACT



64,680,236

gallons of water saved... enough water to supply

1,192

households with water for one year.



\$214,092

saved on utility bills



\$168,169

saved by utility companies on water preparation/delivery costs.***







Florida-Friendly Landscaping™ Green **Industries Best Management Practices** (GI-BMP) training program is a partnership between the Florida Department of Environmental **Protection and UF/IFAS Extension to provide** science-based information and techniques to urban landscape maintenance professionals. Classes, offered in English, Spanish, and Haitian-Creole, are taught by 400 certified instructors from **UF/IFAS Extension.** industry, government agencies and other volunteers.

GREEN INDUSTRIES BMPS

Improving Florida's Water and Natural Resources

GI-BMP training promotes behaviors and practices that

conserve water and reduce pollutants

from urban landscapes making their way into Florida's canals, lakes, rivers, springs, aquifers and wetlands

Since 2006, 46,192 green industry professionals have received GI-BMP training, valued at

\$6.9 million

52,000
CEUs required
for FDACS
pesticide and
fertilizer licenses,
valued at
\$1.3 million

Adopting Best Practices

93–99% of GI-BMP training participants are using best practices for irrigation, maintenance, fertilization, and pesticide application on a regular basis[†]

26% average increase in **ALWAYS** using the following practices:

- Apply no more than 1/2 3/4" water per irrigation event saving an estimated 25-50% of water, according to UF/IFAS research
- Avoid mulching around tree trunks and shrub bases
- Reset irrigation controls/ timers seasonally
- Reduce fertilizer application
- Use IPM to determine pest control methods

Adoption of new technologies

72% use soil tests to determine fertilization needs

85% use soil moisture or other sensing devices to ensure effective water use

Leveraging Extension

90-94% of participants share what they learn in GI-BMP training with their clients and coworkers

Florida-Friendly Landscaping™ Online Applications

- **♦ FFL Plant Guide Mobile Web App**
- ♦ FFL Butterfly Gardens Mobile Web App
- ♦ Florida Fertilizer Mobile Web App
- **>** FFL Online CEUs





Florida-Friendly Landscaping™ Plant Guide

Find the Right
Plant for the
Right Place
Anytime,
Anywhere







Florida-Friendly Landscaping™ Butterfly Gardens

Mobile Web App

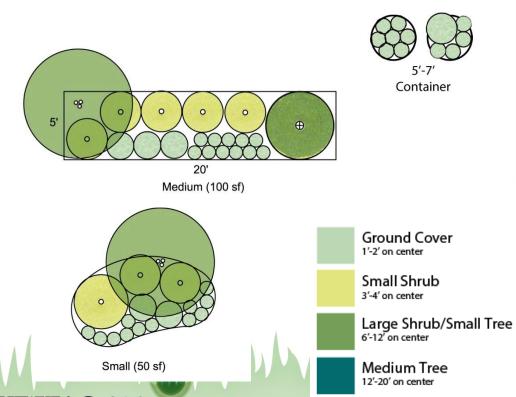


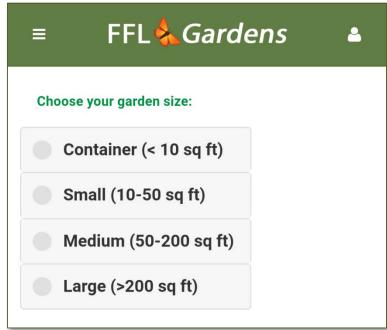
Collaborators: Jaret Daniels, Wendy Wilbur, and Kathy Malone

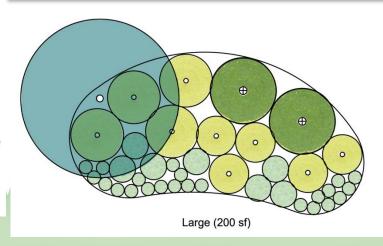


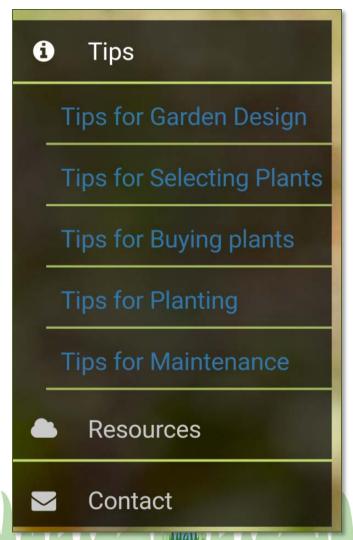


 Guidance for type and number of plants for garden size







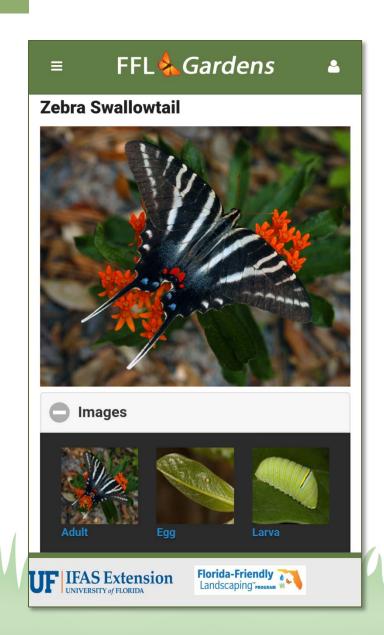


- Includes tips for...
 - Garden design principles
 - Right Plant/Right Place
 - How to attract butterflies
 - Florida-Friendly planting and maintenance practices
- Resources link to related EDIS, FFL and other sources



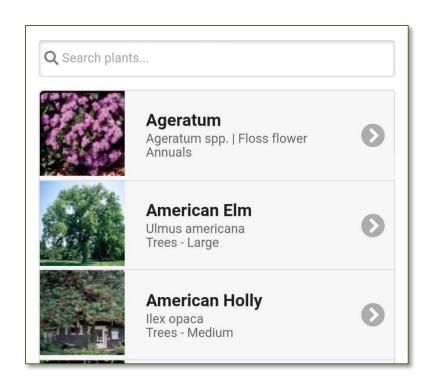


- 62 Florida butterflies
- Pictures of different life stages for many
- Host plants
- Feeding preferences





- Browse list of 190 plants
- Search by name, species or category





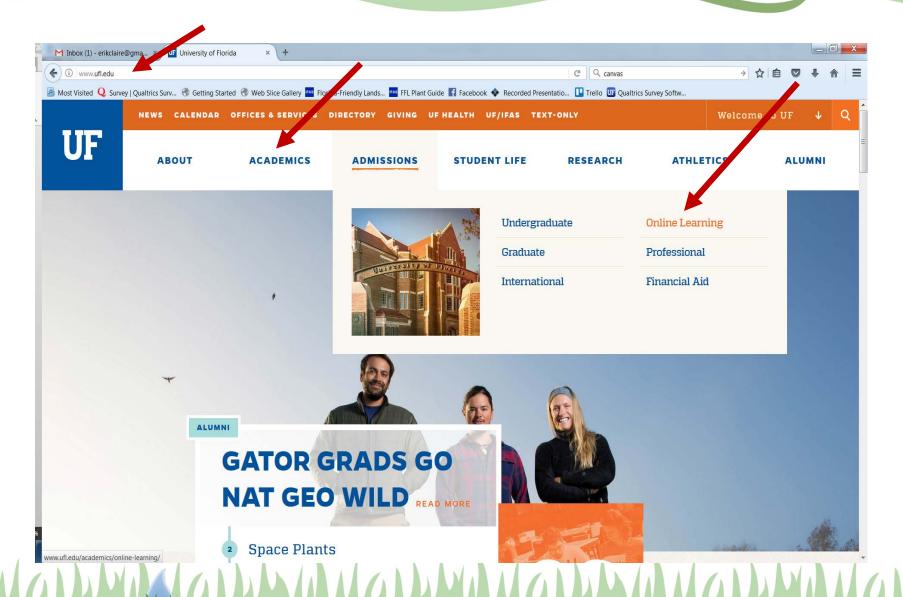
Florida-Friendly Landscaping™ Online Applications

Online CEUs

Landscape Architects and CAMs

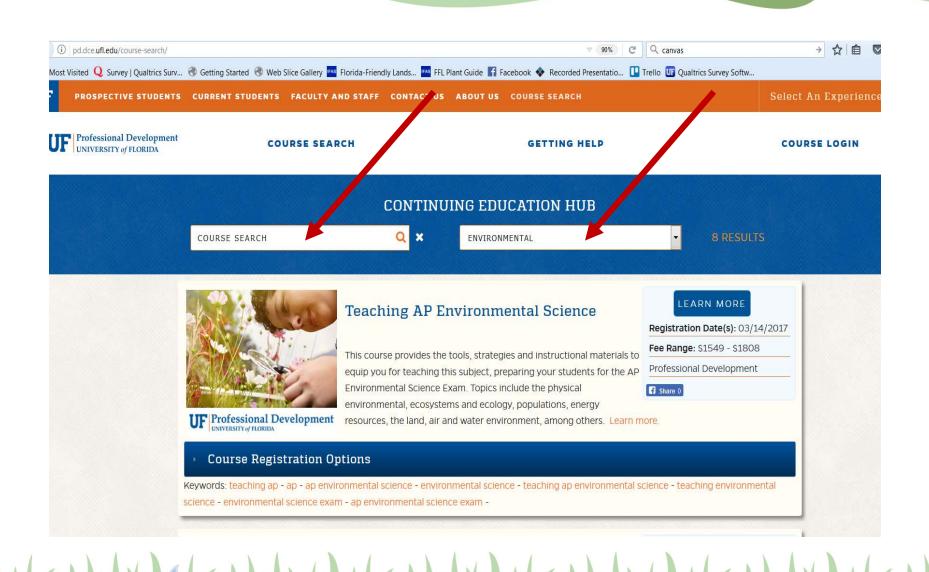
Collaborator: Gail Hansen





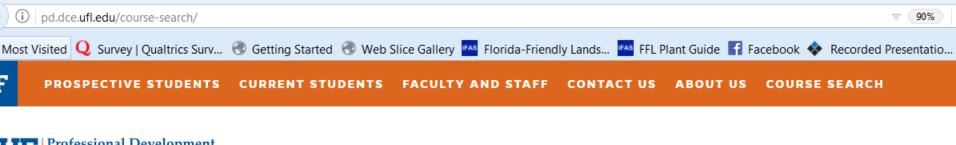














COURSE SEARCH

GETTING HELP



Introduction to the Florida-Friendly Landscaping[™] Program

UF IFAS Extension UNIVERSITY of FLORIDA

This one-hour course provides an introduction to the 9 principles of the Florida-Friendly Landscaping™ Program. Upon completion students will: Recognize purpose of the Florida-Friendly Landscapin Program, understand the importance of following the Florida-Friend principles and recognize the benefits to communities. Learn more.

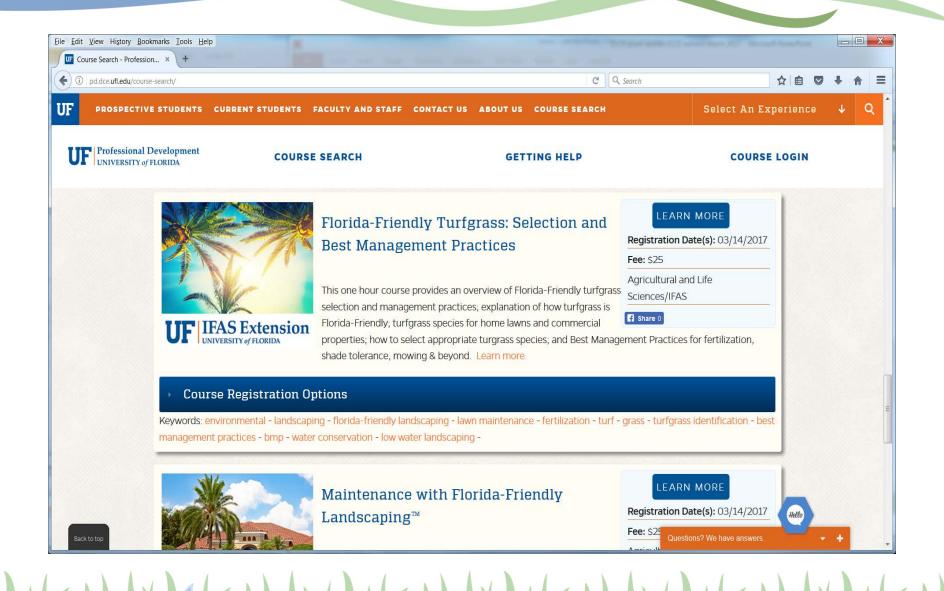
Course Registration Options

Keywords: environmental - landscaping - florida-friendly landscaping - community association manager ffl water conservation - low water landscaping -



Florida-Friendly Landscaping™ Legislation Codes, and Your Community

This one-hour course provides an overview of the legislation







The Florida-Friendly Landscaping™ Program's

Florida Fertilizer Ordinance Mobile Web Application

Collaborators: Bryan Unruh and Serena Yang



What Is the Florida Fertilizer Ordinance App?

- A quick reference of restrictions for Florida's many county and municipal fertilizer application ordinances
- A geolocating mobile web application for fertilizer applicators, using a map interface for easy access





Ordinance Details

77+ Florida county/municipal ordinances:

- Blackout dates, if any
- Weather restrictions
- Annual N limit
- Maximum soluble N per application





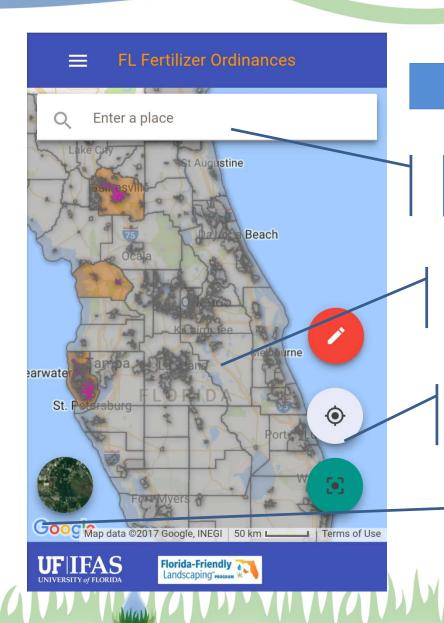
Ordinance Details

77+ Florida county/municipal ordinances:

- Minimum setback with deflector
- Slow release requirement
- P₂O₅ content limit
- Sales restriction
- Date of ordinance adoption/revision







Map Interface

App uses Google's map engine

Search by city, county, or address

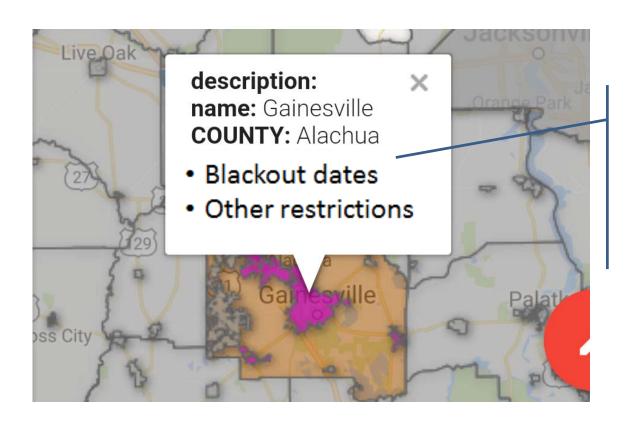
Or, drag and zoom on map

Or, go to user location

Toggle between map & satellite view



Ordinance Summary



Tap or click map to display key ordinance restrictions

Includes link to full ordinance (Municode website or PDF)





FFL Certification

Collaborators: Whitney Elmore, Lynn Barber,
 Gail Hansen, and Wendy Wilbur

- 6 h online modules
- 2 h classroom (1 h Field and 1 h classroom)





