



## **Course Description**

### **IPM2301 | Pesticide Applications | 3.00 credits**

Students will learn government regulations with regard to pesticide mixing and application and safety equipment. Preparation for the restricted use applicators license exam will be covered.

## **Course Competencies:**

**Competency 1:** The student will establish and manage a pest control program by:

1. Determining when plant damage is caused by a pest and not due to environmental
2. Identifying the correct pesticide for a particular pest problem
3. Identifying weeds and determining appropriate herbicides to use against the weeds
4. Developing an integrated pest management program for a nursery or landscape area
5. Maintaining pesticide application records

**Competency 2:** The student will prepare and correctly apply pesticides by:

1. Demonstrating how to dilute and mix liquid pesticides and herbicides correctly
2. Demonstrating how to mix and prepare powder and granular pesticides correctly
3. Identifying the correct equipment to apply particular pesticides
4. Demonstrating correct pesticide application methods for particular pesticides
5. Interpreting pesticide labels and their contents
6. Determining the ID50 level for chemicals

**Competency 3:** The student will follow correct safety and environmental concerns when applying pesticides by:

1. Identifying and correctly using personal protective equipment and pesticide application equipment
2. Transporting, storing, and disposing of pesticides in a correct and safe manner
3. Performing proper clean-up procedures for pesticide spills
4. Demonstrating familiarity with Florida state laws and regulations regarding pesticide application
5. Preparing for the Florida restricted-use applicators license

## **Learning Outcomes:**

- Use quantitative analytical skills to evaluate and process numerical data
- Describe how natural systems function and recognize the impact of humans on the environment