HRT 200 Integrated Pest Management

General Information

Date
June 28th, 2018

Author
Rochelle Smith

Department
Environmental Conservation and Horticulture

Course Prefix
HRT

Course Number
200

Course Title
Integrated Pest Management

Course Information

Credit Hours
3

Lecture Contact Hours
3

Lab Contact Hours
0

Other Contact Hours
0

Catalog Description
Designed to provide the students with a working knowledge in developing environmentally sound programs in limiting harmful plant diseases and pests. The course will emphasize the principles and practices of integrating chemical, cultural, and biological controls and the issues related to pesticides and the environment. Training the students in the types and usage of pesticides and pesticide equipment will be included. Field trips

Key Assessment
This course does not contain a Key Assessment for any programs
First Year Experience/Capstone Designation

This course DOES NOT satisfy the outcomes applicable for status as a FYE or Capstone.

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category

None

FLCC Values

Institutional Learning Outcomes Addressed by the Course

Information Resources
Reading
Oral Communication
Computer Literacy

Course Learning Outcomes

Course Learning Outcomes

1. Describe and give examples of the various components of a pesticide label
2. Define and describe what will be found in a pesticide formulation, REI, PPE, LD50, and the EIQ
3. Define and calculate the GDD for an insect pest
4. Compare the four levels of IPM control - cultural, mechanical, biological, chemical
5. Construct an outline of the cultural information for a specific plant with three (3) diseases that can attack that plant with management strategies for each, and with three (3) insect pests that can attack that plant with management strategies for each

Outline of Topics Covered
I. Introduction
   a. To IPM in general
   b. Class Project
   c. The NYS IPM Program
   d. Abiotic disorders
   e. Methods for preventing problems with a plant

II. Production Options
   a. Organic Production
   b. Conventional Production
   c. IPM Production

III. Pesticides
   a. Label Components
   b. Formulations
   c. REI – re entry interval
   d. PPE – personal protective equipment
   e. Restricted vs Unrestricted usages
   f. LD50
   g. EIQ – environmental impact quotient
   h. Rachel Carson

IV. Specific IPM programs introduction
   a. Tree Fruit IPM
   b. Vineyard IPM
   c. Vegetable IPM
   d. Greenhouse IPM
   e. Turf IPM
   f. Perennials IPM
   g. Tree and Shrub IPM
   h. Urban and Home IPM
   i. Berry IPM
j. Livestock IPM