

Revised: Fall 2016

HRT 207

Plant Pest Management

COURSE OUTLINE

Prerequisites:

None

Course Description:

Teaches principles and practices of pest control for landscape and production horticulture. Examines types of plant pests, plant pest life cycles and options for pest control. Examines principles and best practices of pesticide safety. Provides field identification of plant pests.

Semester Credits: 3 Lecture Hours: 2 Lab/Recitation Hours: 2

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HRT 207- Plant Pest Management

Course Outcomes

At the completion of this course, the student should be able to:

1. Demonstrate skills in identification of plant pests
2. Describe the life cycles of common plant pests
3. Develop practical pest controls
4. Understand the concept of I.P.M.
5. Develop a panoptic view of pesticide safety

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Required Materials:

Textbook:

Integrated Pest Management For Floriculture And Nurseries, Publication 3402,
Statewide Integrated Pest Management Project, University Of California Division of
Agriculture And Natural Resources For Floriculture and Nurseries; ISBN: 1-879906-46-5

The following supplementary materials are available:

1. Live materials/specimens as available
2. Ortho Problem Solver, 2nd edition, Michael D. Smith editor; ISBN: 0-89721032-8.
Located in N102.

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Topical Description: (Outline chapters and sections to be covered in the book – may include timeline)

Introduction of entomology, plant pathology and weed science

Mechanics of plant pathology Pages 69 - 130

Mechanics of entomology Pages 131 – 226, 265 - 272

Mechanics of weed science Pages 227 – 264

Abiotic disorders and cultural practices Pages 41 - 68

I.P.M Pages 1 -4

Pesticides

Pests in the Landscape (pest scouting and identification in the field)

 Pests of Conifers

 Pests of deciduous trees and shrubs

 Pests of herbaceous plants

 Pests of turf

Greenhouse and Nursery crop pest control Pages 5 - 40

Specialty crop pest control

Wood boring insects

Non-pathogenic problems

Alternative host relationships

Economic entomology

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Notes to Instructors

(List information about optional topics, departmental exams, etc)

1. All instructors should place their course syllabus and outline on blackboard by the first day of class.
2. All graded material will be graded without favoritism or subjectivity.
3. If graded projects are assigned in this course, a rubric will be created and a common grading will be used to evaluate the project.
4. Information related to neonicotinoids
5. Discussion on new pesticides
6. Organic pest control methods

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