

CATALOG INFORMATION

Dept and Nbr: HORT 171 Title: IPM IN HORTICULTURE
Full Title: Integrated Pest Management in the Horticulture Industry
Last Reviewed: 12/14/2015

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.50	Lecture Scheduled	3.00	8	Lecture Scheduled	24.00
Minimum	1.50	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	24.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 48.00

Total Student Learning Hours: 72.00

Title 5 Category: AA Degree Applicable
Grading: Grade or P/NP
Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:
Formerly: AG 297.39

Catalog Description:
The IPM concept and its application in various horticultural settings for those who work, or intend to work, in the landscape, interiorscape, nursery or turf fields of horticulture. Reviews categories and characteristics of plant pests and diseases, prevention practices, and plant tolerance levels.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:
Description: IPM concepts & applications in various horticultural settings for those who work, or intend to work, in the landscape, interiorscape, nursery or turf fields of horticulture. Reviews categories & characteristics of plant pests & diseases, prevention practices, & plant tolerance levels. (Grade or P/NP)
Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:

IGETC:	Transfer Area	Effective:	Inactive:
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CSU Transfer:	Effective:	Inactive:
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UC Transfer:	Effective:	Inactive:
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CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

Students will:

1. Describe at least 3 methods of physical/mechanical pest control.
2. Describe at least 3 methods of cultural pest control.
3. Describe at least 3 methods of biological pest control.
4. Describe at least 3 methods of chemical pest control.
5. Distinguish between abiotic problems and pest problems.
6. Describe the proper procedure by which to examine plants.
7. Describe the proper plant monitoring techniques.
8. Outline common pest prevention practices for a production nursery.
9. Outline common pest prevention practices for a growing landscape.
10. Diagnose common pest problems.

Topics and Scope:

- I. Concept of "Plant pests and problems" in the horticulture industry
- II. IPM concept
 - A. Prevention
 - B. Monitoring
 - C. Thresholds
 - D. Management
 1. physical/mechanical
 2. cultural
 3. biological
 4. chemical
 5. abiotic
- III. Crop/plant profiles involving application of IPM strategies
 - A. Landscape trees

- B. Landscape shrubs
 - C. Nursery (container) shrubs
 - D. Greenhouse foliage plants
- IV. Field application
- A. Landscape sites
 - B. Container nurseries
 - C. Greenhouse operation
 - D. Turf maintenance

Assignment:

1. Research paper identifying a plant disorder and developing a "treatment plan."
2. Recommend IPM control measures for selected problem(s)/situation(s).
3. Field trips.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework, Research papers.

Writing
20 - 40%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

; recommend IPM control measures.

Problem solving
20 - 40%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations
0 - 0%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion

Exams
20 - 30%

Other: Includes any assessment tools that do not logically fit into the above categories.

Field trip participation.

Other Category
10 - 20%

Representative Textbooks and Materials:

Pests of Landscape Trees and Shrubs, an IPM Guide. University of Calif., 1994.

IPM Guide for Floriculture and Nursery. University of Calif., 2002.

Olkowski, William. Common Sense Pest Control. Taunton Press, 1991.

