

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
HRT 206 - PESTICIDES IN HORTICULTURE (2 CR.)**

Course Description

Discusses pesticide selection, mixing, application, storage, and disposal. Stresses safety, environmental considerations, and legal restrictions. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

General Course Purpose

This course is designed to impress upon Turf & Grounds Management students the wide variety of pesticides available to them, and how important it is to use them properly. The course helps prepare students to take the Category III pesticide application certification exam.

Course Prerequisites/Co-requisites

Students should be able to read at the college level and perform basic computations.

Course Objectives

Upon completion of the course students should be able to:

- Explain how insecticides, fungicides, and herbicides differ.
- Describe the different pesticide formulations and their uses.
- Describe safe mixing, application, handling, storage and disposal of pesticides.
- Summarize the laws pertaining to pesticide use by horticulturists.
- Calibrate application equipment.
- Select appropriate protective clothing.
- Describe the Worker Protection Standard.
- Discuss careers requiring frequent pesticide application.

Major Topics to be Covered

- a. Role of pesticides in integrated pest management
- b. Pesticide laws and liability, and compliance with Virginia law
- c. Steps toward and reasons for pesticide applicator certification
- d. Pesticide safety
- e. Environmental considerations
- f. Pesticide formulations and adjuvants
- g. Pesticide application equipment
- h. Calibration of application equipment
- i. Pesticide calculations
- j. Insecticides, miticides, fungicides, herbicides as categories and specific examples