NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY HRT 125 - CHEMICALS IN HORTICULTURE (3 CR.)

Course Description

Emphasizes basic chemical principles and their application to horticulture. Introduces principles of inorganic and organic chemicals. Studies chemical activities of insecticides, fungicides, herbicides, fertilizers, and growth regulators. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose

This course should be taken near the beginning of the Horticulture Technology program to provide the student with a fundamental understanding of chemistry and horticultural chemicals. The course will provide a basic understanding of the principles of chemistry and how they may be encountered in horticulture.

Course Prerequisites/Co-requisites

Students should be able to read in English and should have strong computational skills.

Course Objectives

Upon completion of the course students should be able to:

- Understand the periodic table
- · Read chemical symbols
- Write and balance simple chemical reactions
- Note the differences between organic and inorganic substances
- Understand how chemistry applies to horticulture

Major Topics to be Included

- a. Ethics of applying horticultural chemicals
- b. Types of horticultural chemicals
- c. Chemical principles
- d. Chemical reactions
- e. Organic versus inorganic compounds
- f. Safety when using horticultural chemicals