NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY HRT 119 - IRRIGATION SYSTEMS FOR TURF AND ORNAMENTALS (3 CR.)

Course Description

Explains why, when and how irrigation systems are used by the grounds management industry. Includes component selection, system design, installation, operation and maintenance. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose

This course is designed to help the student design, install and maintain irrigation systems for landscaped areas.

Course Prerequisites/Co-requisites

Students must be prepared to perform college-level calculations and to read technical course materials.

Course Objectives

Upon completion of the course students should be able to:

- Describe the many uses of irrigation systems in the landscape.
- Explain when to water and how much to apply in different situations.
- Design simple systems.
- Explain how to install irrigation systems.
- Maintain irrigation systems.

Major Topics to be Covered

- a. Why irrigate
- b. Irrigation timing
- c. Irrigation rate and intensity
- d. Water sources and quality
- e. Irrigation systems for various uses:
 - 1. Components
 - 2. Different types of each component
- f. Drainage and suction systems
- g. System design
- h. Installing irrigation systems
- i. System operation
- j. Maintenance and warranties
- k. Laboratory sessions during which students see actual components and operational irrigation systems, design systems for different situations, and may practice installation skills