

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY  
HRT 117 - TOOLS AND EQUIPMENT (2 CR.)**

**Course Description**

Introduces tools and equipment used in commercial horticulture. Emphasizes power-operated equipment, including spreaders, sprayers, saws and tractors. Stresses safety, maintenance, minor repair and appropriate tool selection. It includes laboratory sessions during which students visit distributors of horticultural tools and equipment, practice maintenance operations, and repair gas-operated engines. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

**General Course Purpose**

This practical course is designed to give the student a working knowledge of the tools and equipment commonly used by the grounds maintenance industry.

**Course Objectives**

Upon completion of the course students should be able to:

- Identify common tools and equipment, and describe how they are used.
- Explain safety precautions to be taken when using horticultural tools and equipment.
- Describe the maintenance of horticultural implements.
- Repair small engines.

**Major Topics to be Included**

- a. Types of tools and equipment, their functions and operation
- b. Maintenance
- c. Repair and troubleshooting
- d. Sources of tools and equipment

This course includes laboratory sessions during which students visit distributors of horticultural tools and equipment, practice maintenance operations, and repair gas-operated engines.