Syllabus

HRT 202 Landscape Construction and Maintenance

General Information

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Department
Environmental Conservation and Horticulture

Course Prefix
HRT

Course Number
202

Course Title
Landscape Construction and Maintenance

Course Information

Credit Hours
3

Lecture Contact Hours
3

Lab Contact Hours
0

Other Contact Hours
0

Catalog Description
This course will familiarize students with construction of walks, drives, walls, patios, fireplaces, garden structures, lawns flowerbeds; and the planting and staking of trees and shrubs. Maintenance practices for the landscape, including actual pruning of small trees and shrubs, irrigation and spring and fall preparation of the landscape will be studied. Topics on business establishment and operation as well as bidding the job will be discussed.

Key Assessment
This course does not contain a Key Assessment for any programs
Prerequisites
None

Co-requisites
None

Grading Scheme
Letter

First Year Experience/Capstone Designation

This course DOES NOT satisfy the outcomes applicable for status as a FYE or Capstone.

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category
None

FLCC Values

Institutional Learning Outcomes Addressed by the Course

Critical Thinking
Global Concerns
Reading

Course Learning Outcomes

Course Learning Outcomes

1. Identify, select, operate, maintain, and explain the various tools and equipment used in the planting and maintenance of landscape materials and in the construction of outdoor landscape structures

2. Demonstrate and explain the correct processes for planting or transplanting trees, shrubs, herbaceous perennials plants, and lawns into various landscape conditions

3. Describe the layout and installation procedures for a landscape planting

4. Identify the issues and criteria for selecting, placing, and maintaining, and explain the processes for the installation of hardscape, waterscape and irrigation systems to a new or existing landscaped area

5. Explain the correct procedures and timing for pruning, trimming, edging, mulching, and watering various landscape plant materials

6. Examine a group of landscape plants to determine the correct maintenance procedures for the individual components and the group
7. Design a maintenance plan for individual components and an overall group of landscape plants and clearly describe this maintenance plan verbally and in writing to a person not trained in the landscape field.

8. Become certified in Bobcat Skid-Steer Safety following the national professional course outline.

Outline of Topics Covered

I. Introduction to landscape career opportunities
   a. Titles & degree options
   b. Introduction to various career opportunities

II. Introduction to landscape tools
   a. Hand tools for installation and pruning
   b. Small Engines
   c. Bobcat Skid-Steer
   d. Gator
   e. Specialty tools for irrigation
   f. Specialty tools for hardscape

III. Sustainable Landscape Construction
   a. Concepts of sustainability
   b. Components of a healthy site
   c. Sustainable plant choices & applications
   d. Sustainable water management
   e. Origin & fate of materials
   f. Sustainable energy usage in the landscape

IV. The Bobcat Skid-Steer Safety Certificate
   a. Required class time
   b. Required machine time
   c. Standardized written and machine tests

V. Plant Installations
   a. Reading a landscape plan
   b. Traveling with plants
c. Specialty tools

d. Specialty techniques

e. Coordination of crews

VI. Hardscaping in the landscape

a. Types of hardscapes

b. Required subsoil work

c. Required substrate – types and installation

d. Techniques in building up layers

e. Types of surface materials

f. Drainage

VII. Irrigation for the landscape

a. Reading an irrigation plan

b. Types and components of irrigation system

c. Water pressure and back flow

d. Sources for equipment

VIII. Landscape Construction and/or Maintenance Business

a. Components to consider

b. Resources