



Milwaukee Area Technical College

HORT-125 Landscape Maintenance Applications

Course Outcome Summary

Course Information

Description	Students will learn concepts in landscape management and health such as establishment, pruning, weed control, mulching, fertilization, winter protection, and basic turf management.
Total Credits	3
Total Hours	64

Types of Instruction

Instruction Type	Credits/Hours
Lecture	2cr/32hrs
Lab	1cr/32hrs

Career Essentials

1. Effective Problem Solving

Program Outcomes

1. **Communicate as a horticulture professional**

Status *WIP*

Criteria

- 1.1. learner refers to plants by common and approved nomenclature
- 1.2. learner articulates phases of project management
- 1.3. learner displays professional character
- 1.4. learner interacts with professional organizations, colleagues, and community
- 1.5. learner applies current technology to the profession

2. **Provide horticulture maintenance**

Status *WIP*

Criteria

- 2.1. learner protects existing vegetation, structures, and property
- 2.2. learner implements cultural practices to maintain plants and or communities
- 2.3. learner operates maintenance equipment
- 2.4. learner schedules maintenance operations
- 2.5. learner adheres to safety standards

Course Competencies

1. **Prune woody landscape plants.**

Linked Program Outcomes

Provide horticulture maintenance

Assessment Strategies

- 1.1. Skill Demonstration
- 1.2. Written Objective Test

Criteria

Your performance will be successful when:

- 1.1. you wear proper personal protective equipment as required.
- 1.2. you choose a suitable tool to make the cut.
- 1.3. you make pruning cuts in suitable locations.
- 1.4. you choose suitable pruning cuts for the plant.
- 1.5. you thin plants with even density.
- 1.6. you shear shrubs wider on the bottom than the top.
- 1.7. you prune without tearing, earing, stubbing, or flushing the cut.
- 1.8. you prune with 80% accuracy.

Learning Objectives

- 1.a. Locate the branch bark ridge and branch collar on a tree branch union.
- 1.b. Compare pruning types for shrubs and evergreens.
- 1.c. Identify deadwood during winter.

2. Plant a woody landscape plant.

Linked Program Outcomes

Provide horticulture maintenance

Assessment Strategies

- 2.1. Skill Demonstration
- 2.2. Written Objective Test

Criteria

Your performance will be successful when:

- 2.1. you participate in planting your shrub with your group.
- 2.2. you plant with 90% adherence to the A-300 standards.
- 2.3. you clean up the site after planting.

Learning Objectives

- 2.a. Describe conditions for ideal root growth.
- 2.b. Compare B&B, container grown, and bare root planting stock.
- 2.c. Identify challenging soil and site conditions.

3. Identify landscape weeds.

Linked Program Outcomes

Provide horticulture maintenance

Assessment Strategies

- 3.1. Written Objective Test

Criteria

Your performance will be successful when:

- 3.1. you identify 70% of the weed samples by common name.
- 3.2. you indicate the life cycle of the weed (annual, biennial, perennial, woody).

Learning Objectives

- 3.a. Compare and contrast annual, biennial, perennial, and woody weed life cycles.
- 3.b. Identify root types of annual, biennial, and perennial weeds.
- 3.c. Identify above ground plant parts.

4. Describe weed control options.

Linked Career Essentials

Effective Problem Solving

Linked Program Outcomes

Communicate as a horticulture professional

Assessment Strategies

- 4.1. Written Objective Test
- 4.2. Scenario Response

Criteria

Your performance will be successful when:

- 4.1. you propose suitable weed control options based on weed scenarios.
- 4.2. you satisfy the client wishes.
- 4.3. you provide non-herbicide options.
- 4.4. you propose 70% of possible options to manage weeds.

Learning Objectives

- 4.a. Compare pre-emergent and post emergent herbicide applications.
- 4.b. Compare systemic and contact herbicide mode of actions.
- 4.c. Describe non-chemical weed control options.

5. Describe how to establish turf grass.

Linked Program Outcomes

Provide horticulture maintenance

Assessment Strategies

- 5.1. Written Objective Test

Criteria

Your performance will be successful when:

- 5.1. you match a suitable turfgrass species to the site.
- 5.2. you describe site preparation that enhances turf growth.
- 5.3. you schedule post-care for the turf area.
- 5.4. you describe establishment of turf with 80% accuracy.

Learning Objectives

- 5.a. Describing conditions for healthy turfgrass.
- 5.b. Compare and contrast seed-established lawns verses sodded lawns.

6. Describe control of urban wildlife damage.

Linked Program Outcomes

Provide horticulture maintenance

Assessment Strategies

- 6.1. Written Objective Test
- 6.2. Scenario Response

Criteria

Your performance will be successful when:

- 6.1. you propose effective wildlife control options based on actual scenarios.
- 6.2. you identify the cause of damage with 80% accuracy.

Learning Objectives

- 6.a. Compare damaged caused by deer, rabbits, voles, woodpeckers, and beavers.
- 6.b. Compare wildlife damage prevention methods.
- 6.c. Describe Wisconsin laws protecting wildlife.

7. Describe winter protection of shrubs.

Linked Program Outcomes

Provide horticulture maintenance

Assessment Strategies

- 7.1. Written Objective Test

Criteria

Your performance will be successful when:

- 7.1. you describe the cause of the winter problem.
- 7.2. you propose suitable winter protection measures for various scenarios with 80% accuracy.

Learning Objectives

- 7.a. Define the differences between desiccation, sunscald, frost damage, and frost heaving.
- 7.b. Explain the importance of winter hardiness in plant health.
- 7.c. Discuss remedies for desiccation, sunscald, and frost heaving.