MILWAUKEE AREA Technical College

**Milwaukee Area Technical College**

# HORT-135 Herbaceous Plants

## Course Outcome Summary

### Course Information

**Description** This course introduces herbaceous landscape plant materials for Zone 5 or colder climates. Emphasis is on identification, cultural and maintenance requirements, and use in landscape design.

**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. Analyze growing media**

***Status*** *WIP*

**Criteria**

1.1. learner identifies components of soilless media
1.2. learner recommends soil remediation
1.3. learner obtains soil samples
1.4. learner analyzes soil test results

**2. Diagnose plant health**

***Status*** *WIP*

**Criteria**

2.1. learner gathers diagnostic information
2.2. learner describes methods of plant sample collection and preparation for lab analysis
2.3. learner recommends appropriate remedial options
2.4. learner recognizes common biotic and abiotic disease agents and common plant injuries
2.5. learner differentiates between signs and symptoms

**3. Communicate as a horticulture professional**

***Status*** *WIP*

**Criteria**

3.1. learner refers to plants by common and approved nomenclature
3.2. learner articulates phases of project management
3.3. learner displays professional character
3.4. learner interacts with professional organizations, colleagues, and community
3.5. learner applies current technology to the profession

### 4. Apply design principles

***Status*** *WIP*

**Criteria**

4.1. learner applies the design process to horticulture practice
4.2. learner articulates the principles of universal design
4.3. learner displays professional level in presentation techniques
4.4. learner recognizes the elements of sustainability in design and construction

### 5. Provide horticulture maintenance

***Status*** *WIP*

**Criteria**

5.1. learner protects existing vegetation, structures, and property
5.2. learner implements cultural practices to maintain plants and or communities
5.3. learner operates maintenance equipment
5.4. learner schedules maintenance operations
5.5. learner adheres to safety standards

### 6. Apply the principles of plant science

***Status*** *WIP*

**Criteria**

6.1. learner identifies parts of a plant
6.2. learner identifies plants by their characteristics
6.3. learner summarizes the plant's physiological process
6.4. learner selects the right plant for the right place
6.5. learner determines the correct plant cultural requirements

## Course Competencies

### 1. Contrast plant life cycles: annual, biennial and perennial

**Linked Program Outcomes**

Apply the principles of plant science

**Assessment Strategies**

1.1. Critique
1.2. Written Objective Test

**Criteria**

*Your performance will be successful when:*

1.1. you explain annual life cycle features with 70% accuracy.
1.2. you explain perennial life cycle features with 70% accuracy.

**Learning Objectives**

1.a. Describe herbaceous plant life cycles
1.b. Categorize herbaceous plants by life cycle

### 2. Identify the major annual plants used in the horticulture industry

**Linked Program Outcomes**

Communicate as a horticulture professional

Apply design principles

**Assessment Strategies**
2.1. Written Objective Test
2.2. Skill Demonstration

**Criteria**

*Your performance will be successful when:*

2.1. you correctly name common annuals to 70% accuracy.
2.2. you correctly select common annual plants for a landscape setting with 70% accuracy.

**Learning Objectives**
2.a. Name annual plant samples using horticultural nomenclature
2.b. Describe aesthetic features of common annual plants
2.c. Determine cultural requirements for specific annual plants
2.d. Describe functional features of common annual plants

## 3. Identify the major perennial herbaceous plants used in the horticulture industry

**Linked Program Outcomes**
Communicate as a horticulture professional
Apply design principles

**Assessment Strategies**
3.1. Written Objective Test
3.2. Skill Demonstration

**Criteria**

*Your performance will be successful when:*

3.1. you identify perennial plants with 70% accuracy.
3.2. you correctly categorize perennials by seasonal interest with 70% accuracy.
3.3. you categorize perennials used for foliage interest with 70% accuracy.

**Learning Objectives**
3.a. Name perennial plant samples using horticultural nomenclature
3.b. Describe aesthetic features of common perennial plants
3.c. Select cultural requirements for perennial plants
3.d. Characterize seasonal interest of perennial species
3.e. List Wisconsin native perennials
3.f. Describe functional features of common perennial plants

## 4. Evaluate herbaceous groundcovers in landscape plantings

**Linked Program Outcomes**
Apply design principles

**Assessment Strategies**
4.1. Written Objective Test
4.2. Skill Demonstration

**Criteria**

*Your performance will be successful when:*

4.1. you identify groundcover plants with 75% accuracy.
4.2. you correctly select groundcovers for a site with 75% accuracy.

**Learning Objectives**
4.a. Explain function of groundcover plants
4.b. Identify features of groundcover plants
4.c. List Wisconsin native groundcovers

## 5. Evaluate techniques to properly establish herbaceous garden plantings

**Linked Program Outcomes**
Analyze growing media

Apply the principles of plant science

**Assessment Strategies**

5.1. Skill Demonstration
5.2. Written Objective Test

**Criteria**

*Your performance will be successful when:*

5.1. you plant to recommended depth with 70% accuracy.
5.2. you plant to recommended spacing with 70% accuracy.

**Learning Objectives**

5.a. Explain methods for planting herbaceous plants.
5.b. Outline advantages to mulching with organic mulch.

## 6. Determine maintenance requirements for healthy herbaceous plantings

**Linked Career Essentials**

Effective Problem Solving

**Linked Program Outcomes**

Diagnose plant health
Provide horticulture maintenance

**Assessment Strategies**

6.1. Skill Demonstration
6.2. Written Objective Test

**Criteria**

*Your performance will be successful when:*

6.1. you outline maintenance requirements for herbaceous plants with 70% accuracy.
6.2. you determine fertility needs with 70% accuracy.

**Learning Objectives**

6.a. Demonstrate deadheading spent flower stalks.
6.b. Describe appropriate watering.
6.c. Select fertilization options.
6.d. Explain appropriate mulching.
6.e. Identify when dividing plants is needed.
6.f. Select end of season bed clean up option.

**Developed By:**

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**Development Date:**

3/18/2022

**Revised By:**

Laurie Weiss

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