



Milwaukee Area Technical College

HORT-159 Survey of Herbaceous Plants

Course Outcome Summary

Course Information

Description	Commonly used herbaceous annuals, perennials, and bulb plants are studied with an emphasis on identifying flower and foliage characteristics and their using the landscape.
Total Credits	2
Total Hours	32

Types of Instruction

Instruction Type	Credits/Hours
Lecture	2cr/32hrs

Career Essentials

1. Technological Competency

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. Identify herbaceous plants

Linked Career Essentials

Technological Competency

Linked Program Outcomes

Communicate as a horticulture professional

Assessment Strategies

- 1.1. Competency will be demonstrated by weekly quizzes
- 1.2. Competency will be demonstrated by unit exams

Criteria

Your performance will be successful when:

- 1.1. Learner identifies annuals with 80% accuracy
- 1.2. Learner identifies perennials with 80% accuracy
- 1.3. Learner identifies bulb plants with 80% accuracy

Learning Objectives

- 1.a. describe features of common annuals
- 1.b. describe features of common perennials
- 1.c. describe features of common bulb plants

2. Select plant species for the site

Linked Program Outcomes

Apply design principles

Apply the principles of plant science

Assessment Strategies

- 2.1. Competency will be demonstrated by weekly quizzes
- 2.2. Competency will be demonstrated by unit exams

Criteria

Performance will be satisfactory when:

- 2.1. Learner selects annual plant species for given site conditions with 80% accuracy
- 2.2. Learner selects perennial plant species for given site conditions with 80% accuracy
- 2.3. Learner selects bulb plant species for given site conditions with 80% accuracy

Learning Objectives

- 2.a. select plants able to survive in given location
- 2.b. choose plants to fit design style of given location

3. Differentiate techniques of planting and maintenance

Linked Program Outcomes

Diagnose plant health
Provide horticulture maintenance

Assessment Strategies

- 3.1. Competency will be demonstrated by weekly quizzes
- 3.2. Competency will be demonstrated by unit exams

Criteria

- 3.1. Demonstrate planting technique with 80% accuracy
- 3.2. Choose maintenance practices with 80% accuracy

Learning Objectives

- 3.a. demonstrate planting technique
- 3.b. demonstrate deadheading
- 3.c. demonstrate pinching
- 3.d. outline nutrient management
- 3.e. discuss sanitation
- 3.f. identify pest problems

4. Grow a selection of herbaceous plants

Linked Program Outcomes

Analyze growing media

Assessment Strategies

- 4.1. Competency will be demonstrated through completion of a project

Criteria

Performance will be satisfactory when:

- 4.1. Learner seeds a crop with 80% accuracy in technique
- 4.2. Learner grows and produces a crop with 80% success

Learning Objectives

- 4.a. seed plant selections in greenhouse
- 4.b. apply cultural techniques
- 4.c. produce plant crop

Revised By:

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