MILWAUKEE AREA *Technical College*

Milwaukee Area Technical College

HORT-114 Survey of Woody Ornamental Plants

Course Outcome Summary

Course Information

Description	Plant classification and the techniques of plant identification are explained. The student utilizes these techniques in identifying commonly used deciduous and evergreen trees and shrubs.
Total Credits	3
Total Hours	64

Types of Instruction

Instruction Type	Credits/Hours
Lecture	2 crs / 32 hrs
On Campus Lab	1 crs / 32 hrs

Career Essentials

1. Effective Communication in Writing

Program Outcomes

1. Diagnose plant health
Status WIP

Criteria
1.1. learner gathers diagnostic information
1.2. learner describes methods of plant sample collection and preparation for lab analysis
1.3. learner recommends appropriate remedial options
1.4. learner recognizes common biotic and abiotic disease agents and common plant injuries
1.5. learner differentiates between signs and symptoms

2. Communicate as a horticulture professional
Status WIP

Criteria
2.1. learner refers to plants by common and approved nomenclature
2.2. learner articulates phases of project management
2.3. learner displays professional character
2.4. learner interacts with professional organizations, colleagues, and community
2.5. learner applies current technology to the profession

3. Provide horticulture maintenance
Status WIP

Criteria
3.1. learner protects existing vegetation, structures, and property
3.2. learner implements cultural practices to maintain plants and or communities
3.3. learner operates maintenance equipment
3.4. learner schedules maintenance operations

3.5.   learner adheres to safety standards

4.   Apply the principles of plant science
Status   WIP

Criteria
4.1.   learner identifies parts of a plant
4.2.   learner identifies plants by their characteristics
4.3.   learner summarizes the plant's physiological process
4.4.   learner selects the right plant for the right place
4.5.   learner determines the correct plant cultural requirements

Course Competencies

1.   Explain the binomial system of nomenclature.

Linked Program Outcomes
Communicate as a horticulture professional

Assessment Strategies
1.1.   Competency will be demonstrated by a written quiz.

Criteria

Your performance will be successful when:

1.1.   Learner explains relationships among the taxa with 80% accuracy.
1.2.   Learner relates the importance of the family with 80% accuracy.
1.3.   Learner evaluates the importance of genus with 80% accuracy.
1.4.   Learner reviews the importance of species with 80% accuracy .

Learning Objectives
1.a.   analyze taxonomy
1.b.   classify plant families
1.c.   categorize plant genera
1.d.   classify plant species
1.e.   utilize a dichotomous key

2.   Distinguish phyllotaxis.

Linked Program Outcomes
Diagnose plant health
Apply the principles of plant science

Assessment Strategies
2.1.   Competency will be demonstrated by written quiz.

Criteria
2.1.   Identify opposite leaf arrangement with 100% accuracy.
2.2.   Identify alternate leaf arrangement with 100% accuracy.

Learning Objectives
2.a.   identify opposite branching plants
2.b.   identify alternate branching plants
2.c.   identify simple leaves
2.d.   identify compound leaves

3.   Differentiate plants by genus Latin name.

Linked Career Essentials
Effective Communication in Writing

Linked Program Outcomes
Communicate as a horticulture professional

Assessment Strategies
3.1.   Competency will be demonstrated by weekly quizzes in the field or the classroom.
3.2.   Competency will be demonstrated by four major exams in the field or the classroom.

Criteria

Your performance will be successful when:

3.1.   Learner identifies plants to the genus level in field or plant samples in classroom with 80% accuracy.

3.2.   Learner classifies plants by genus Latin name with 80% accuracy.

Learning Objectives
3.a.   identify genus
3.b.   label genera by Latin names

4.   Differentiate plants by genus common name.

Linked Program Outcomes
Communicate as a horticulture professional
Provide horticulture maintenance

Assessment Strategies
4.1.   Competency will be demonstrated by weekly quizzes in the field or the classroom.
4.2.   Competency will be demonstrated by four major exams in the field or the classroom.

Criteria
4.1.   Learner identifies plants to the genus level in field or plant samples in classroom with 80% accuracy.
4.2.   Learner classifies plants by genus common name with 80% accuracy.

Learning Objectives
4.a.   identify genus
4.b.   label genera by common names

5.   Differentiate species within each genus by Latin name.

Linked Career Essentials
Effective Communication in Writing

Assessment Strategies
5.1.   Competency will be demonstrated by weekly quizzes in the field or the classroom.
5.2.   Competency will be demonstrated by four major exams in the field or the classroom.

Criteria

Your performance will be successful when:

5.1.   Learner identifies plants to the species level in field or plant samples in classroom with 80% accuracy.
5.2.   Learner classifies plants by species Latin name with 80% accuracy.

Learning Objectives
5.a.   identify species
5.b.   label species by Latin names

6.   Differentiate species within each genus by common name.

Assessment Strategies
6.1.   Competency will be demonstrated by weekly quizzes in the field or the classroom.
6.2.   Competency will be demonstrated by four major exams in the field or the classroom.

Criteria
6.1.   Learner identifies plants to the species level in field or plant samples in classroom with 80% accuracy.
6.2.   Learner classifies plants by species common name with 80% accuracy.

Learning Objectives
6.a.   identify species
6.b.   label species by common names

Revised By:

Cassie Brayton

Revision Date:

3/4/20