

PST-1311: DECIDUOUS WOODY LANDSCAPE PLANTS

Cuyahoga Community College

Viewing: PST-1311 : Deciduous Woody Landscape Plants

Board of Trustees:

2014-06-19

Academic Term:

Fall 2021

Subject Code

PST - Plant Science/Landscape Tech.

Course Number:

1311

Title:

Deciduous Woody Landscape Plants

Catalog Description:

Covers the correct identification, cultural requirements, potential and correct uses of deciduous trees and shrubs in the landscape.

Credit Hour(s):

3

Lecture Hour(s):

2

Lab Hour(s):

3

Requisites

Prerequisite and Corequisite

ENG-0995 Applied College Literacies, or appropriate score on English Placement Test; or departmental approval.

Note: ENG-0990 Language Fundamentals II taken prior to Fall 2021 will also meet prerequisite requirements.

Outcomes

Course Outcome(s):

A. Use botanical nomenclature according to International Botanical Congress rules.

Objective(s):

1. Demonstrate knowledge of deciduous, woody landscape plants through visual inspection and specific characteristics.

Course Outcome(s):

B. Demonstrate a working knowledge of basic plant morphology.

Objective(s):

1. Describe stem morphology.
2. Describe leaf morphology.
3. Describe floral morphology.
4. Describe fruit morphology.

Course Outcome(s):

C. Select appropriate deciduous trees and shrubs for specific landscape situations.

Objective(s):

1. Analyze climate conditions and predict survivability and health of deciduous, woody landscape plants.
 2. Identify approximately 25 deciduous trees and shrubs not suitable for use in the landscape profession.
 3. Identify approximately 200 deciduous trees and shrubs suitable for use in the landscape profession.
 4. Identify the cultural requirements for the plants learned in class.
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Methods of Evaluation:

1. Weekly plant identification quiz
2. Weekly quiz on plant characteristics, cultural requirements, and uses
3. Individual student project
4. Final exam

Course Content Outline:

1. Botanical nomenclature
 - a. Family
 - b. Genus and species
 - c. Cultivar, variety, forma, and subspecies
2. Plant morphology
 - a. Stem structure
 - b. Leaf structure
 - c. Flowers and fruits
3. Presentation of individual plants recommended for landscapes
 - a. Binomial
 - b. Common name
 - c. Identifying characteristics
 - i. Growth habit
 - ii. Leaf and twig
 - iii. Flower and fruit
 - d. Cultural requirements
 - i. Soil type and pH
 - ii. Moisture requirement
 - iii. Light requirement
 - e. Plant uses in landscape
4. Presentation of individual plants NOT recommended for landscapes
 - a. Binomial
 - b. Common name
 - c. Identifying characteristics
 - i. Growth habit
 - ii. Leaf and twig
 - iii. Flower and fruit
 - d. Cultural requirements
 - i. Soil type and pH
 - ii. Moisture requirement
 - iii. Light requirement
 - e. Why not recommended
5. Recommending plants for a specific landscape situation
 - a. Soil analysis
 - b. Drainage analysis
 - c. Location of planting bed
 - d. Light exposure

Resources

Hower, Fred Alison Beck. *Tree Shrub Gardening for Ohio*. First. Lone Pine Publishing, Auburn, WA, 2004.

O'Sullivan, Penelope. *The Homeowner's Complete Tree Shrub Handbook: The Essential Guide to Choosing, Planting, and Maintaining Perfect Landscape Plants*. first Edition. Storey Publishing LLC, North Adams, MA, 2007.

Dirr, Michael. *Manual of Woody Landscape Plants: Their Identification, Ornamental Characteristics, Culture, Propagation and Uses*. 6th ed. Stipes Publishing, Champaign, IL, 2009.

Dunnett, Nigel Andy Clayden. *Rain Gardens: Managing Water Sustainably in the Garden and Designed Landscape*. First Edition. Portland, OR; Timber Press, 2007.

Gregory, Peter J.D. Vertrees. *Japanese Maples: The Complete Guide to Selection and Cultivation*. 4th Edition. Portland, OR; timber Press, 2010.

Dirr, Michael. *Viburnums: Flowering Shrubs for Every Season*. First Edition. Portland, OR; Timber Press, 2007.

Resources Other

1. Oregon State University Landscape Plant web site - <http://oregonstate.edu/dept/ldplants/>
2. University of Connecticut Landscape Plant web site - <http://www.hort.uconn.edu/plants/>

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