CNST-1350: DENDROLOGY I

Cuyahoga Community College

Viewing: CNST-1350 : Dendrology I

Board of Trustees:
MAY 2025

Academic Term:
Fall 2026

Subject Code
CNST - Construction Engineering Tech

Course Number:
1350

Title:
Dendrology I

Catalog Description:
Identification during the summer season of commonly-encountered woody plants in Northern Ohio emphasizing use of botanical keys for identification. Topics include identifying markings and evidence of tree remnants to identify property corners and witness corners for land surveying. Labs are off-campus at selected local parks and students will be required to provide their own transportation to-and-from each field location.

Credit Hour(s):
2

Lecture Hour(s):
1

Lab Hour(s):
3

Requisites

Prerequisite and Corequisite
CNST-1290 Construction Print Reading or concurrent enrollment.

Outcomes

Course Outcome(s):
Describe the importance of tree identification as applied to boundary surveying.

Essential Learning Outcome Mapping:
Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):
1. Describe how witness trees used in legal descriptions.
2. Describe how trees are identified in American Land Title Association (ATLA) surveys.
3. Describe how trees can be used as property markers in surveys.

Course Outcome(s):
Identify and name each plant covered in laboratory, either by fruit, cone, leaf, twig, bark, habit, or any combination of these or other characteristics.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Describe how trees are classified.
2. Describe components of a tree.
3. Describe tree species distribution across Ohio.
4. Identify components of a tree and its classification in the field.

Course Outcome(s):

Use a botanical key to properly determine the identification of commonly encountered trees and shrubs.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Describe how to use a botanical key.
2. Demonstrate usage of a botanical key in tree identification.
3. Measure tree components with a tape measure.
4. Record tree identification information.

Methods of Evaluation:

1. Quizzes
2. Midterm
3. Final examination
4. Laboratory activities

Course Content Outline:

Summer Season Focus

1. Introduction
   a. Nomenclature
   b. Descriptive terms
   c. Regional forest types
   d. Use of botanical keys
   e. Examples in legal descriptions, ALTA surveys, and survey drawings
2. Angiosperms
   a. Buckeyes
   b. Ashes
   c. Walnuts
   d. Cottonwood
   e. Locust
   f. Maples
   g. Hickories
   h. Willows
   i. Oaks
   j. Dogwoods
   k. Elms
   l. Beech
   m. Sassafras
   n. Gum
   o. Chestnut
   p. Cherries

q. Plums
r. Hollies

3. Gymnosperms
   a. Pines
   b. Junipers
   c. Hemlock
   d. Larch
   e. Bald Cypress
   f. Cedar

Religious Accommodation

Before reviewing the course schedule, students should carefully review the following religious accommodation policy and other required instructional policies:

Religious Accommodation:

Students seeking an accommodation for absences permitted under Ohio's Testing Your Faith Act must provide the instructor with written notice of the specific dates for which the student requires an accommodation and must do so not later than fourteen (14) days after the first day of instruction. Please submit requests for accommodations at this link: https://portal2.tri-c.edu/ReligiousAccommodation/ Religious Accommodation Form. Students with questions about their religious accommodations under Ohio's Testing Your Faith Act may contact the College's Office of General Counsel and Legal Services by phone at 216.987.4856 or via email at legal@tri-c.edu.

Other Required Instructional Policies:

https://www.tri-c.edu/student-resources/curriculum/documents/syllabus-part-b.pdf

Weekly Schedule

	Topics
Week 1	A. Describe the importance of tree identification as applied to boundary surveying. 1. Describe how witness trees used in legal descriptions.
Week 2	A. Describe the importance of tree identification as applied to boundary surveying. 1. Describe how witness trees used in legal descriptions.
Week 3	A. Describe the importance of tree identification as applied to boundary surveying. 2. Describe how trees are identified in American Land Title Association (ATLA) surveys.
Week 4	A. Describe the importance of tree identification as applied to boundary surveying. 3. Describe how trees can be used as property markers in surveys.
Week 5	A. Describe the importance of tree identification as applied to boundary surveying. 3. Describe how trees can be used as property markers in surveys.
Week 6	B. Identify and name each plant covered in laboratory, either by fruit, cone, leaf, twig, bark, habit, or any combination of these or other characteristics. 1. Describe how trees are classified.
Week 7	B. Identify and name each plant covered in laboratory, either by fruit, cone, leaf, twig, bark, habit, or any combination of these or other characteristics. 1. Describe how trees are classified.
Week 8	B. Identify and name each plant covered in laboratory, either by fruit, cone, leaf, twig, bark, habit, or any combination of these or other characteristics. 2. Describe components of a tree.
Week 9	B. Identify and name each plant covered in laboratory, either by fruit, cone, leaf, twig, bark, habit, or any combination of these or other characteristics. 3. Describe tree species distribution across Ohio.
Week 10	B. Identify and name each plant covered in laboratory, either by fruit, cone, leaf, twig, bark, habit, or any combination of these or other characteristics. 4. Identify components of a tree and its classification in the field.
Week 11	C. Use a botanical key to properly determine the identification of commonly encountered trees and shrubs. 1. Describe how to use a botanical key.
Week 12	C. Use a botanical key to properly determine the identification of commonly encountered trees and shrubs. 1. Describe how to use a botanical key.
Week 13	C. Use a botanical key to properly determine the identification of commonly encountered trees and shrubs. 2. Demonstrate usage of a botanical key in tree identification.

Week 14	C. Use a botanical key to properly determine the identification of commonly encountered trees and shrubs. 3. Measure tree components with a tape measure.
Week 15	C. Use a botanical key to properly determine the identification of commonly encountered trees and shrubs. 4. Record tree identification information.
Week 16	Final exam

The Course Schedule is subject to change due to pedagogical needs, instructor discretion, parts of term, and unexpected events.

Required/Recommended Readings

Braun, E. Lucy. *The Woody Plants of Ohio: Trees, Shrubs and Woody Climbers, Native, Naturalized, and Escaped*.

Resources for the Instructor

Braun, E. Lucy. *The Woody Plants of Ohio: Trees, Shrubs and Woody Climbers, Native, Naturalized, and Escaped*. Ohio State University Press, 1989.

Braun, E. Lucy. *Deciduous Forests of Eastern North America*. Echo Point Books & Media, LLC, 2023.

National Audubon Society. *National Audubon Society Trees of North America*. Knopf, 2021.

Additional Resources for the Instructor

1. *Trees of Ohio - Field Guide* (2019) https://dam.assets.ohio.gov/image/upload/ohiodnr.gov/documents/wildlife/backyard-wildlife/Pub%205509%20Trees%20of%20Ohio%20Field%20Guide.pdf

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