



Syllabus

BIO 224 Dendrology and Field Botany

General Information

Date May 17th, 2019

Author Robert Wink

Department Conservation

Course Prefix BIO

Course Number 224

Course Title Dendrology and Field Botany

Dual Listing (also listed as): CON 224

Course Information

Catalog Description Field study, identification and natural history of non-woody and woody plant species and the communities to which they belong. Uses of forest trees by humans and wildlife is emphasized.

Credit Hours 3

Lecture Contact Hours 4

Lab Contact Hours 0

Other Contact Hours 0 (.)

Grading Scheme Letter

Prerequisites

None

Co-requisites

None

First Year Experience/Capstone Designation

This course **DOES NOT** satisfy the outcomes applicable for status as a FYE or Capstone.

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category

None

FLCC Values

Institutional Learning Outcomes Addressed by the Course

Vitality, Inquiry, Perseverance, and Interconnectedness

Course Learning Outcomes

Course Learning Outcomes

1. Practice plant identification skills using dichotomous keys for major plant groups (e.g. woody plants, wildflowers, ferns, mosses).
2. Describe morphological features (vegetative and reproductive) of major plant groups (e.g. woody plants, wildflowers, ferns, mosses).
3. Create portfolio of herbarium specimens.
4. Apply fundamental species concepts (description and ecology) to larger biome scale patterns.
5. Evaluate woody plant utilization by humans and wildlife.

Outline of Topics Covered

1. Plant classification 2. Scientific nomenclature 3. Vegetative and reproductive morphology 4. Identification keys 5. Important forest trees (natural history, phenology, ecology, phytogeography, 6. Winter tree identification 7. Forest tree associates (shrubs, vines, herbaceous plants, ground cover species) 8. Natural community classification emphasizing the eastern deciduous forest biome 9. Special topics (e.g., old growth forests, dendrochronology, tree restoration projects)

Program Affiliation

This course is required as a core program course in the following program(s)
AAS Fish and Wildlife Technology and AAS Natural Resources Conservation