

Lassen Community College Course Outline

FOR 5 Dendrology

3.0 Units

I. Catalog Description

This course provides a general overview US trees/shrubs. Ranges, botanical characteristics, commercial and noncommercial uses, growth rates, and relation of plants to their total environment. Topics include identification, classification, silvical characteristics, distribution, environmental requirements and economic importance of woody plants in shrub, woodland, and forest ecosystems of the United States. This course has been approved for hybrid and online delivery.

Recommended Preparation: Successful completion of ENGL105 or equivalent multiple measures placement.

Transfers to CSU

General Education Area:

CSU GE Area:

C-ID

51 Hours Lecture, 102 Expected Outside Class Hours, 153 Total Student Learning Hours

Scheduled: Fall

II. Coding Information

Repeatability: Not Repeatable, Take 1 Time

Grading Option: Graded

Credit Type: Credit – Degree Applicable

TOP Code: 0114.00

III. Course Objectives

A. Course Student Learning Outcomes

Upon completion of this course the student will be able to:

1. Describe the basic Principles of Wood Identification
2. Demonstrate the use of Taxonomic keys
3. Identify important western tree and some shrubs by family, genus and species.

B. Course Objectives

Upon completion of this course the student will be able to:

1. Understand the basic Principles of Wood Identification
2. Demonstrate the use of Taxonomic keys
3. Identify important western tree and some shrubs by family, genus and species.

IV. Course Content

A. Introduction to Dendrology

1. Definition
2. Dichotomous Keys

B. Wood Identification

1. Phylgenetics and Practice keying
2. Vegetative morphology

3. Reproductive morphology
 4. Nomenclature
 5. Variation
- C. Type
1. Gymosperms
 2. Conifers
 3. Taxaceae & Cupressaceae
 4. False cedars
 5. Cypresses
 6. Junipers
 7. Redwoods
 8. Pinaceae & pines
 9. True firs
 10. Larches & spruces
 11. Douglas-fir & hemlock
 12. Hardwoods

V. Assignments

A. Appropriate Readings

Required reading assignments will be made from the textbook on a regular basis. In addition, journal and articles from outside resources including video, newspapers, magazines, internet, etc. pertaining to course topics will be incorporated in the class lectures and assignments.

A. Writing Assignments

Students will be required to complete short answer written assignments, quizzes and/or submit a research paper on a forestry topic as assigned by the instructor.

B. Expected Outside Assignments

Outside assignments may include take home short answer written assignments, required reading of supplementary literature, term paper(s), and group research and reports.

C. Specific Assignments that Demonstrate Critical Thinking

Critical thinking, writing assignments as listed above. Individual and group presentations of the course topics.

VI. Methods of Evaluation

Traditional Classroom Evaluation

Comprehensive Quizzes and Exams
 Written Critical Thinking Scenarios
 Problem Analysis and Solution
 Research and Term Papers

Online Evaluation

Same as face-to-face instruction including a variety of evaluation methods such as: research papers, asynchronous and synchronous discussions (chat/forum), exercises/assignments, online quizzes and exams, and postings to online website.

Hybrid Evaluation

All quizzes and exams will be administered during the in-person class time. Students will be expected to complete online assignments and activities equivalent to in class

assignments and activities for the online portion of the course. Electronic communication, both synchronous and asynchronous (chat/forum) will be evaluated for participation and to maintain effective communication between instructor and students.

VII. Methods of Delivery

Check those delivery methods for which, this course has been separately approved by the Curriculum/Academic Standards Committee.

Traditional Classroom Delivery Correspondence Delivery

Hybrid Delivery Online Delivery

Traditional Classroom Delivery

Methods of instruction may include, but are not limited to: lecture (including guest speakers), PowerPoint, and other media presentations, discussions, scenarios, and group presentations.

Online Delivery

Assigned readings, instructor-generated typed handouts, typed lecture materials, exercises and assignments equal to face to face instructional delivery. Written correspondence and a minimum of six opportunities for feedback will be utilized to maintain effective communication between instructor and student.

Hybrid Delivery

A combination of traditional classroom and online instruction will be utilized. Each semester a minimum of 17 hours, or 1/3 of the lecture hours, will be taught face-to face by the instructor and the remaining hours will be instructed online through the technology platform adopted by the District. Traditional class instruction will consist of exercises/assignments, lectures, visual aids, and practice exercises. Online delivery will consist of exercises/assignments, lecture posts, discussions, adding extra resources and other media sources as appropriate.

VIII. Representative Texts and Supplies required

1. **Plants of Northern California: A Field Guide to Plants West of the Sierra Nevada**
Paperback [Eva Begley Ph.D.](#) Falcon Guides: 2018 ISBN: 978-1493031849
2. **First Lessons in Dendrology** Kendall Hunt Publishing 2011 Author: Richard Brahm
ISBN: 9781465253958

IX. Discipline/s Assignment

Forestry, Biology

X. Course Status

Current Status: Active

Original Approval Date: 02/21/2023

Board Approval: 04/11/2023

Revised By:

Curriculum/Academic Standards Committee Revision Date: