

# HORT 23: PLANT MATERIALS: CALIFORNIA NATIVE PLANTS

## Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2022
Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51D.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

## Student Learning Outcomes

- Identify California Native Plants presented by botanical and common names.
- Compare and contrast California Native Plants features and cultural need.

## Description

Identification, taxonomy, habits of growth, cultural and environmental requirements of plants native to California landscapes. Emphasis on a wide variety of native species including trees, shrubs, ground covers, and herbaceous plants. Plants are observed via media and physical observation.

## Course Objectives

The student will be able to:

- Recall the botanical and common names of at least 100 California native plants and the terms used for plant identification.
- Recall the appearance and adaptation and use of at least 100 California native plants.
- Compare and contrast California native plant features and cultural needs in different landscape situations.
- Identify how the plants can be used in the landscape.
- Recognize the similarities of California native plants to other climates around the world and how indigenous native cultures used plants.

## Course Content

- Review of botanical and horticultural names of covered plants and the terms necessary for plant identification
- Detailed appearance of 100 or more California native plants from around the state, including identification of the following characteristics:
  - Leaf type
  - Fruit
  - Bark

- Form
  - Growth habit
- Identify the cultural practices related to successful plant growth
    - Planting
    - Disease and insect pest control
    - Propagation
    - Pruning
    - Adaptation
    - Sun/shade
    - Soil type
    - Moisture requirements
      - Soil pH
      - Wildlife habitat
    - Pest harboring
  - Relationship of plants covered in the course to landscape design practices, including:
    - Color
    - Form
    - Texture
    - Line
    - Edible
    - Functional concerns
    - Aesthetic uses
    - Wildlife value
    - Poisonous
  - Discussion of how plants can be used for different purposes by native California cultures and similarities to plants in similar climatic regions around the world

## Lab Content

Not applicable.

## Special Facilities and/or Equipment

Native plant collections on and off campus.

## Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Weekly identification quizzes

Written midterm exam on characteristics and use of plants in design situations

Written final exam on use of plants in design situations

## Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Field observation of plants

Lectures on plant characteristics

Discussions regarding use and care of plants

Read assigned reading activities

Perform self-guided research

## **Representative Text(s) and Other Materials**

Bornstein, Carol, David Fross, and Bart O'Brien. California Native Plants for the Garden. 2005.

This text is a seminal work in the field of native plants.

## **Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments**

Typical reading assignments will include researching up to 10 plant species per week (approximately 20 pages of reading) in representative text and similar text books, and research/reading of websites related to native plants (approximately 5 pages per week).

## **Discipline(s)**

Ornamental Horticulture