

**BOTANY 60 Course Outline as of Spring 2000****CATALOG INFORMATION**

Dept and Nbr: BOTANY 60 Title: FIELD BOTANY

Full Title: Field Botany

Last Reviewed: 1/28/2019

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	4.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	4.00	Lab Scheduled	3.00	17	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	6.00		Contact Total	105.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 210.00

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: BOTANY 30A

**Catalog Description:**

Survey of the vegetation and flora of Northern California. Includes the identification and ecology of component species and methods of vegetation and floristic study. Field trips required.

**Prerequisites/Corequisites:****Recommended Preparation:**

Completion of or concurrent enrollment in ENGL 100 or ESL 100.

**Limits on Enrollment:****Schedule of Classes Information:**

Description: Survey of the vegetation and flora of Northern California. Includes the identification and ecology of component species and methods of vegetation and floristic study. Field trips required. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Completion of or concurrent enrollment in ENGL 100 or ESL 100.

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>		Effective:	Inactive:
	C	Natural Sciences	Fall 1981	
<b>CSU GE:</b>	<b>Transfer Area</b>		Effective:	Inactive:
	B2	Life Science	Fall 1981	
	B3	Laboratory Activity		
<b>IGETC:</b>	<b>Transfer Area</b>		Effective:	Inactive:
<b>CSU Transfer:</b>	Transferable	Effective:	Fall 1981	Inactive:
<b>UC Transfer:</b>		Effective:		Inactive:

**CID:**

**Certificate/Major Applicable:**

Not Certificate/Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Students completing Botany 60 will:

1. Define the nature of scientific inquiry.
2. Describe principles of plant classification.
3. Describe basic vegetative and reproductive morphology of seed plants, including associated vocabulary.
4. Define the environmental factors influencing plant distribution.
5. Describe the physiography and climate of California.
6. Describe the geological history of the California flora and vegetation.
7. Describe the evolution and adaptation of the California flora.
8. Define the principles of ecological succession.
9. Demonstrate methods of vegetation classification with specific reference to California.
10. Describe the major vegetation types (communities) of California, including the ecology and taxonomy of the dominant component species.
11. Describe the methods of plant taxonomy.
12. Define the major plant families represented in the California flora.
13. Demonstrate methods of plant identification, including use of herbaria and dichotomous keys.
14. Demonstrate basic methods of vegetative and floral survey and assessment.

### **Topics and Scope:**

1. Plant diversity and classification.
2. Reproductive biology and adaptations of seed plants.
3. California environment: physiography, climate, geology.
4. Plant ecology: distribution and evolution.

5. Factors influencing plant distribution in California: environmental tolerances and evolutionary history.
6. Major evolutionary trends in California flora and vegetation.
7. Development of current vegetation patterns: role of ecological succession.
8. Major Northern California vegetation types:
  - a. Coastal grasslands and scrublands
  - b. Coastal forests
  - c. Woodlands
  - d. Chaparral
  - e. Riparian and wetland types
  - f. Montane types
9. Major methods of floristic study.
10. Principle families of the California flora
11. Identification of dominant species of perennials and wildflowers in Sonoma County and the North Bay.
12. Methods of floristic and vegetational analysis.

### Assignment:

1. Read text and other assigned reading.
2. Response papers.
3. Plant collections.
4. Field surveys and analysis.

### Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Lab reports, Essay exams, Response papers

Writing  
10 - 20%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Field work, Quizzes

Problem solving  
15 - 35%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Field work, Plant collection

Skill Demonstrations  
15 - 30%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, Matching items, Completion

Exams  
20 - 40%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

None

Other Category  
0 - 0%

**Representative Textbooks and Materials:**

CALIFORNIA'S CHANGING LANDSCAPES: Barbour, M. et al., 1993, CNPS  
PLANTS OF THE SAN FRANCISCO BAY REGION: Kozloff, E. and Beidleman, L.,  
1994, Sagen Press