

**BOTANY 62 Course Outline as of Summer 2011****CATALOG INFORMATION**

Dept and Nbr: BOTANY 62 Title: COAST REDWOOD ECOL/MGT

Full Title: Coast Redwood Ecology and Management

Last Reviewed: 5/12/2008

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.50	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	1.50	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	1.25		Contact DHR	21.88
		Contact Total	2.25		Contact Total	39.38
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 74.38

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: BIO 71.9

**Catalog Description:**

Biology, ecology and management of Coast Redwood, including vegetation, wildlife and conservation of the Coast Redwood Forest Type. DHR hours include field trips.

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

Eligibility for ENGL 100 or ESL 100

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

Description: Biology, ecology and management of Coast Redwood, including vegetation, wildlife and conservation of the Coast Redwood Forest Type. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

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:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>		Effective:	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

### **CID:**

### **Certificate/Major Applicable:**

Major Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon completion of this course, through class meetings and field trips, the student will be able to:

1. Identify the major plant species within the redwood forest community.
2. Explain the major ecological factors which determine the distribution of coast redwood and relate this information to current ecological theory.
3. Develop and write a research paper (4-6 pages) concerning a selected ecological or management topic.
4. Identify the major wildlife species in Coast Redwood communities and their management objectives.
5. Demonstrate knowledge of historical uses of coast redwood.
6. Analyze and evaluate silvicultural systems of coast redwood across its geographical range.
7. Explain and evaluate the various laws and regulations governing harvesting and management of coast redwood.
8. Relate, compare, and contrast these ecological and management issues to similar issues in other intensively managed natural systems.
9. Differentiate among the major vegetation characteristics of various types of Coast Redwood communities.

### **Topics and Scope:**

1. Biological and ecological characteristics of coast redwood.
2. Taxonomy of major plant and animal species characteristic of redwood forests.
3. Ecology of redwood forest ecosystems.
4. Silviculture of redwood - an historical perspective.
5. A history of conflict over management of redwood.
6. Even-age versus uneven-age management.
7. Impact of silvicultural systems on regeneration.
8. Tree improvement programs and the genetics of redwood.

9. Coast redwood as a future supplier of wood products.
10. Laws and regulation affecting management of coast redwood.

**Assignment:**

1. Read assigned pages in text, approximately eighty pages per week.
2. Submit field trip reports for all class field trips.
3. Research paper.

**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.

Research paper	Writing 40 - 60%
----------------	---------------------

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

Field reports	Problem solving 10 - 30%
---------------	-----------------------------

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

None	Skill Demonstrations 0 - 0%
------	--------------------------------

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

None	Exams 0 - 0%
------	-----------------

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

Participation and attendance.	Other Category 10 - 30%
-------------------------------	----------------------------

**Representative Textbooks and Materials:**

- THE REDWOOD FOREST: Noss, R.F. Island Press, 2000  
 COASTAL REDWOOD: Evarts and Popper (ed), Cachuma Press, 2001