

BOTANY 61 Course Outline as of Summer 2011**CATALOG INFORMATION**

Dept and Nbr: BOTANY 61 Title: LIVING AMONG THE OAKS

Full Title: Living Among The Oaks

Last Reviewed: 9/10/2007

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	3.00	6	Lecture Scheduled	18.00
Minimum	1.00	Lab Scheduled	0	4	Lab Scheduled	0
		Contact DHR	5.00		Contact DHR	30.00
		Contact Total	8.00		Contact Total	48.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 36.00

Total Student Learning Hours: 84.00

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: BIO 40.7

Catalog Description:

The biology of oaks with emphasis on the problems and management of native oaks in wildland and urban environments. Includes issues of regeneration, pests and diseases, wildlife and economic values, landscape and construction considerations. Field trips required.

Prerequisites/Corequisites:**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

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

Description: The biology of oaks with emphasis on the problems and management of native oaks in wildland and urban environments. Includes issues of regeneration, pests and diseases, wildlife and economic values, landscape and construction considerations. Field trips required. (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:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:
IGETC:	Transfer Area	Effective:	Inactive:
CSU Transfer:		Effective:	Inactive:
UC Transfer:		Effective:	Inactive:

CID:

Certificate/Major Applicable:

Major Applicable Course

COURSE CONTENT

Outcomes and Objectives:

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

1. Identify the native oak species of Sonoma County and California.
2. Explain the relationships of California Oaks to the oaks of the world and the other genera within the family Fagaceae.
3. Characterize the biological and ecological relationships between oaks and other plant and animal species within the oak woodland and forest communities.
4. Describe the effects of management decisions (e.g.- landscaping, agricultural conversions, urban expansion) on the ecology and viability of oak species and communities.
5. Determine appropriate methods of mitigation relative to disturbance.
6. Explain the approaches necessary to conserve oak habitat.

Topics and Scope:

1. Taxonomy and ecology of native oaks and oak-dominated ecosystems.
2. Basic evolutionary processes and outcomes relevant to the current taxonomic treatment of Quercus and Fagaceae worldwide.
3. Wildlife ecology and the primary importance of oaks to wildlife in California.
4. Ecological services provided by oaks and oak-dominated ecosystems in California.
5. Introduction to effects of landscaping and construction on oak viability and methods of compatible activities.
6. Basic introduction to oak pests and pathogens, and methods of treatment.
7. Current issues in oak/human interactions.

Assignment:

1. Read relevant literature, approximately thirty pages per week.
2. Complete written research project (5-10 pages with references).
3. Maintain field notebook.
4. Species identification.

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 project, field notebook

Writing
60 - 80%

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

None

Problem solving
0 - 0%

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

Species identification

Skill Demonstrations
10 - 20%

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.

Active participation in all activities

Other Category
10 - 30%

Representative Textbooks and Materials:

OAKS OF CALIFORNIA: Paulik, et.al.
1993, Cachuna Press, Los Olivas, CA
Instructor prepared materials