

CATALOG INFORMATION

Dept and Nbr: HORT 180 Title: WATER CONSERVING LANDS

Full Title: Water Conserving Landscapes

Last Reviewed: 12/6/2010

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	1.00	Lab Scheduled	0	4	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	1.00		Contact Total	17.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 52.50

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: AG 297.36

Catalog Description:

Processes and practices for conserving water in the landscape including plant selection and placement, soil preparation and maintenance, and watering methods.

Prerequisites/Corequisites:

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:

Description: Processes and practices for conserving water in the landscape including plant selection and placement, soil preparation and maintenance, and watering methods. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended:

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:
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CSU Transfer:	Effective:	Inactive:
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UC Transfer:	Effective:	Inactive:
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CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

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

1. Determine primary landscape goals and objectives for a site.
2. Determine soils' physical characteristics and assess water holding capacity.
3. Evaluate the varying conditions and microclimates that exist in a landscape.
4. Select plants for their low water use and drought tolerance.
5. Evaluate size, color, form, texture, leaves, flowers, fruit and maintenance needs for plants.
6. Apply hydrozoning concepts in grouping plants according to their water requirements.
7. Describe the attributes of an efficient irrigation system.
8. Explain the benefits of mulch in a water conserving landscape.
9. Plan a water conserving landscape for a landscape site.

Topics and Scope:

- I. Introduction
 - A. What is a water conserving landscape?
 - B. Benefits/Advantages
- II. Planning
 - A. Landscape goals and objectives
 - B. Site analysis
 - C. Soil analysis
 - D. Zoning the landscape
 - E. Limiting turf areas
- III. Plant Selection
 - A. Considerations
 1. Size
 2. Color
 3. Form
 4. Texture
 5. Leaves
 6. Flowers

- 7. Fruit
- 8. Maintenance
- B. Drought tolerant plants
- C. Natives
- D. Other suitable plants
- IV. Plant Placement
 - A. Water requirements
 - B. Grouping according to hydrozones
 - C. Right plant, right place
- V. Efficient Irrigation
 - A. Systems
 - B. Schedules
 - C. Seasonal adjustments
- VI. Mulching
 - A. Benefits
 - B. Types
 - C. Application
- VII. Appropriate Maintenance

Assignment:

May include:

1. Create a list of primary landscape goals and objectives for a site.
2. Produce a simple site analysis.
3. Create a plant list and hydrozoning plan for a given site.
4. Complete a simple plan for a water conserving landscape for a landscape site.
5. 2-3 quizzes--objective examinations.

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.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments are more appropriate for this course.

Writing
0 - 0%

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

Site analysis, hydrozoning plan, water conserving landscape plan.

Problem solving
60 - 80%

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.

Quizzes, Multiple choice, True/false, Matching items, Completion

Exams
10 - 30%

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

Attendance and participation.

Other Category
0 - 10%

Representative Textbooks and Materials:

Mediterranean Gardening: A Waterwise Approach, Gildemeister, Heidi. UC Press: 2002 (Classic)

The Mediterranean Gardener, Latymer, Hugo and Niccolo Grassi., Frances Lincoln Ltd.:2001 (Classic)

Waterwise Gardening, Lane Publishing Co., Menlo Park, CA :1989 (Classic)

Water Conserving Plants and Landscapes for the Bay Area, East Bay Municipal Utility District (EBMUD), Oakland, CA:1990 (Classic)

California Native Plants for the Garden, Bornstein, Carol, et al. Cachuma Press: 2005