HORT 180 Course Outline as of Fall 2018

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:

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

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

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.
- Evaluate the varying conditions and microclimates that exist in a landscape.
 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.

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.

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

Writing 0 - 0%	

Problem solving 60 - 80%

Skill Demonstrations

0 - 0%

None

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

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

Attendance and participation.

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

Exams 10 - 30%

Other Category 0 - 10%