

CATALOG INFORMATION

Dept and Nbr: HORT 181 Title: WATER EFFIC LANDSCAPER
Full Title: Qualified Water Efficient Landscaper Training
Last Reviewed: 3/9/2015

| Units | | Course Hours per Week | | Nbr of Weeks | Course Hours Total | |
|---------|------|-----------------------|------|--------------|--------------------|-------|
| Maximum | 1.00 | Lecture Scheduled | 3.00 | 7 | Lecture Scheduled | 21.00 |
| Minimum | 1.00 | Lab Scheduled | 0 | 7 | Lab Scheduled | 0 |
| | | Contact DHR | 0 | | Contact DHR | 0 |
| | | Contact Total | 3.00 | | Contact Total | 21.00 |
| | | Non-contact DHR | 0 | | Non-contact DHR | 0 |

Total Out of Class Hours: 42.00

Total Student Learning Hours: 63.00

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:

Catalog Description:
This course prepares irrigation auditors and other landscape professionals to audit irrigation systems with water efficiency being a fundamental component. Students who complete the course with a grade of "C" or better will be recognized as having completed an EPA (Environmental Protection Agency) approved WaterSense Training Program.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:
Description: This course prepares irrigation auditors and other landscape professionals to audit irrigation systems with water efficiency being a fundamental component. Students who complete the course with a grade of "C" or better will be recognized as having completed an EPA (Environmental Protection Agency) approved WaterSense Training Program. (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: |
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| CSU Transfer: | Effective: | Inactive: |
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| UC Transfer: | Effective: | Inactive: |
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CID:

Certificate/Major Applicable:

Both Certificate and Major Applicable

COURSE CONTENT

Outcomes and Objectives:

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

1. Discuss issues related to the local water supply.
2. Apply basic principles of efficient irrigation to determine watering strategies.
3. Describe irrigation system components and their functions.
4. Inspect and maintain an irrigation system to promote efficiency.
5. Utilize formulas and calculations to determine irrigation rates, distribution and uniformity.
6. Troubleshoot irrigation components.
7. Determine soil characteristics.
8. Describe amendments and practices to improve physical soil properties and drainage.
9. Determine the water needs of plants.
10. Describe the steps to implement an IPM (Integrated Pest Management) program.
11. Discuss sources for and use of new irrigation technologies.
12. Efficiently manage irrigation water using irrigation controllers, water budgets, and scheduling.
13. Plan a water conserving landscape for a landscape site.

Topics and Scope:

Assignment:

1. Reading: 10 - 20 pages per week.

2. Problem Solving:
 - a. Homework problems: irrigation related calculations.
 - b. Soil and water in a jar test.
 - c. Hands-on programming of different controller types.
 - d. Irrigation schedule for an existing sample landscape site.
3. Objective exams: 3-5 quizzes; midterm; final certification examination.

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.

See problem solving assignments

Problem solving
20 - 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.

Multiple choice, True/false, Matching items, Completion

Exams
70 - 80%

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:

Instructor prepared materials.