Las Positas College
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Course Outline for HORT 63

SUSTAINABLE LANDSCAPE

Effective: Fall 2018

I. CATALOG DESCRIPTION:
HORT 63 — SUSTAINABLE LANDSCAPE — 2.00 units

This course examines the impact of constructed landscapes on the postindustrial society. Natural ecosystems are studied in order to learn concepts essential to create and maintain sustainable, environmentally sound landscapes. The focus of this course is on planning, designing, installing, and maintaining of landscapes, through the use of ecologically sound construction techniques, materials, and systems.

2.00 Units Lecture

Grading Methods:
Letter or P/NP

Discipline:
- Ornamental Horticulture

	MIN
Lecture Hours:	36.00
Total Hours:	36.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

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

A. identify and understand 10 principles of sustainable landscape construction;
B. prepare a design plan for a bio-swale or bio-retention basin;
C. read, understand, and evaluate landscape specifications, regarding design elements of sustainable construction;
D. prepare and implement a sustainable landscape maintenance program;
E. use information in this course to make environmentally sound decisions, regarding landscape planning, design, installation, and maintenance.

V. CONTENT:
A. The principles of sustainable landscape construction
B. The design principles of bio-swales and bio-retention systems
C. Preparation and design of specification for sustainable landscape construction
D. Preparation and implementation of sustainable landscape maintenance programs
E. Decision-making principles used in the planning, design, construction, and maintenance of sustainable landscapes

VI. METHODS OF INSTRUCTION:
A. **Discussion** -
B. Hand out materials.
C. Media presentations and examples.
D. **Lecture** -

VII. TYPICAL ASSIGNMENTS:
A. Develop a list of plants useful in sustainable landscapes
B. Identify and assemble the components of a drip or micro-irrigation system
C. Prepare a preliminary plan for the installation of a bio-retention swale
D. Prepare a recycling plan for a typical landscaped facility.

VIII. EVALUATION:
A. **Methods**

1. Exams/Tests
2. Class Participation
3. Class Work
4. Home Work

B. **Frequency**

1. Weekly homework assignments related to text book material.

2. Mid-term exam
3. Final exam
4. Daily class participation and work

IX. TYPICAL TEXTS:

1. Denier, Louisa . *The Little Sustainable Landscapes Book.* first ed., Global Canopy Foundation, 2015.
2. Sachs, Jeffrey. *The Age of Sustainable Development.* first ed., Columbia University Press, 2015.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

A. Other publications downloaded from various web sites, such as ANR horticultural publications from the UC COOP EXTENSION.