Las Positas College
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Course Outline for HORT 58

LANDSCAPE CONSTRUCTION

Effective: Fall 2017

I. CATALOG DESCRIPTION:
HORT 58 — LANDSCAPE CONSTRUCTION — 3.00 units

Design, engineering, construction techniques, and installation methods for landscape site development. Cost estimating, bidding, construction materials, methods, equipment, tools, and safety for landscape plan implementation. Contracts, specifications, and legal aspects regarding landscape installation and site development.

2.50 Units Lecture 0.50 Units Lab

Grading Methods:
Letter or P/NP

Discipline:

	MIN
Lecture Hours:	45.00
Lab Hours:	27.00
Total Hours:	72.00

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. Use landscape plans to install landscape features and oversee project management.
B. Develop accurate cost estimates and bid effectively.
C. Select materials and methods for constructing landscape structures with wood or wood substitutes.
D. Select materials and methods for constructing landscape concrete landscape features.
E. Select material and method for constucting masonry landscape features.
F. Use landscape plans, select install plant materials used in landscapes.
G. Select methods of site surveying and preparation.
H. Select material and methods used in the installation of landscape water features.

V. CONTENT:
A. Construction liscensing law, constracts, estimating costs, and preparing bid documents.
B. Reading and implementing landscape plans, installing landscapes, and project management.
C. Construction materials and techniques used in wood and wood substitute landscape structures.
D. Construction materials and techniques used in concrete hardscape features.
E. Construcion materials and techniques used in masonary hardscape features.
F. Construction materials and techniques used in surveying, site preparation, grading, and installing drainage features.
G. Construction materials and tecniques used in installing landscape water features.
H. Plant materials installation.

VI. METHODS OF INSTRUCTION:
A. **Field Trips** - To local gardens or landscape sites to observe landscape construction installations.
B. **Lab** - Hands on demonstrations of tools, materials, and construction techniques.
C. **Lecture** - Based on textbook readings, video presentations, and hand-out materials.
D. **Projects** - Student participation in one or more landscape construction projects.

VII. TYPICAL ASSIGNMENTS:
A. Weekly reading assignments in text and handouts.
B. Participate in a group project, using a plan to install a landscape.
C. Calculate grading cut, fill, slope, etc.
D. Calculate and provide cost estimate for a landscape development project.

VIII. EVALUATION:
A. **Methods**

1. Exams/Tests
2. Quizzes

3. Group Projects
4. Class Participation
5. Class Work
6. Home Work

B. **Frequency**

1. A mid-term exam and a final exam.
2. Frequent short quizzes.
3. One or more group projects.
4. Several written homework assignments spaced throughout the semester.

IX. TYPICAL TEXTS:

1. Darke, Rick. *The Living Landscape: Designing for Beauty and Biodiversity in the Home Garden.* 1st ed., Timber Press, 2014.
2. Sauter, David. *Landscape Construction.* 3rd ed., Cengage, 2010.
3. Bornstein, Carol. *Reimagining the California Lawn.* 3rd ed., Cachuma Press, 2014.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

A. In order to participate in lab activities, students must wear appropriate sturdy footwear and personal protective equipment, such as safety classes and ear plugs.