

Las Positas College
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Course Outline for HORT 57

LANDSCAPE AND TURFGRASS MGMT

Effective: Fall 2015

I. CATALOG DESCRIPTION:

HORT 57 — LANDSCAPE AND TURFGRASS MGMT — 2.00 units

Principles and practices of landscape and turfgrass management as practiced by horticultural professionals, landscape contractors, and grounds keepers will be covered, including preparation, installation, maintenance, renovation, irrigation, fertilization, pruning, and pest control of landscape developments for residential, commercial, public grounds, golf courses, and gardens.

1.50 Units Lecture 0.50 Units Lab

Grading Methods:

Letter or P/NP

Discipline:

	MIN
Lecture Hours:	27.00
Lab Hours:	27.00
Total Hours:	54.00

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:

- Give examples of suitable turfgrass species and varieties for sports turf and ornamental lawn uses
- Describe the steps that should be taken when installing, maintaining, or renovating turfgrass
- Demonstrate methods of basic care and pruning needed to care for trees, shrubs, ground covers and perennials
- Organize a complex irrigation program and list elements of a standard irrigation maintenance check
- Select the correct fertilizers and horticultural chemicals used in various turf and landscape situations and demonstrate understanding of the safe and legal way to apply them
- Identify sound maintenance standards and business practices used in the landscape industry

V. CONTENT:

- Identify the botanical classification of turfgrass species and varieties
- Study the techniques of ornamental lawn and sports turf installation, maintenance and renovation
- Learn the basic care and pruning of trees, shrubs, ground covers and perennial landscape plants
- Study the basics of irrigation system operation
- Study the basics of fertilizer and horticultural chemical applications
- Learn landscape maintenance industry standards and business practices
- Study alternatives to traditional turfgrass, such as no-mow turf, meadows, and artificial turf

VI. METHODS OF INSTRUCTION:

- Lab** -
- Lecture** -
- Field Trips** - visits to campus sports fields at Las Positas college and Chabot College
- Demonstration** - motorized and non-motorized equipment commonly used in landscape and turfgrass management.

VII. TYPICAL ASSIGNMENTS:

- Weekly reading assignments in text related to lecture
- Field study to identify and list various species of turf and ornamental grasses
- A homework paper that describes an essential process in turf or landscape management, such as installation of a sand-base sports field.

VIII. EVALUATION:

A. **Methods**

- Exams/Tests
- Quizzes
- Research Projects

4. Class Participation
5. Lab Activities

B. Frequency

1. Two written exams (mid-term and final)
2. Frequent Quizzes (6-12)
3. One or more homework research projects
4. Daily attendance and active participation will be observed and noted

IX. TYPICAL TEXTS:

1. Emmons, Robert. *Turfgrass Science and Management*. 5th ed., Cengage, 2016.
2. Christians, Nick. *Fundamentals of Turfgrass Management*. 4th ed., John Wiley & Sons, 2012.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Access to internet is required, in order to use online resource material and information posted on blackboard.
- B. Appropriate sturdy footwear, and personal protective equipment, such as ear plugs, gloves, and safety glasses must be worn during certain lab activities, such as motorized equipment operation.