

Las Positas College
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Course Outline for HORT 73

COMPUTER AIDED LANDSCAPE DESIGN

Effective: Fall 2018

I. CATALOG DESCRIPTION:

HORT 73 — COMPUTER AIDED LANDSCAPE DESIGN — 3.00 units

Introduction to basic techniques in computer aided design for Landscapes, with emphasis on user terminology and hands-on learning. How to set up drawings, dimensioning systems appropriate to architecture. Landscape plans, details, drawings and other techniques using the computer.

2.00 Units Lecture 1.00 Units Lab

Grading Methods:

Letter or P/NP

Discipline:

- Ornamental Horticulture

	MIN
Lecture Hours:	36.00
Expected Outside of Class Hours:	72.00
Lab Hours:	54.00
Total Hours:	162.00

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. Explain basic CAD knowledge and procedures
- B. Use drawing tools
- C. Design objects
- D. Use property components
- E. Use tilts and hatches
- F. Demonstrate the imposition of text on drawings
- G. Create dimensions
- H. Create layering
- I. Demonstrate the use of blocks
- J. Translate project from sketch to plot
- K. Demonstrate working in 3D perspectives

V. CONTENT:

- A. Basic CAD operations and procedures.
- B. Drawing tools.
- C. Modifying objects.
- D. Properties.
- E. Fills and Hatches.
- F. Text.
- G. Dimensions.
- H. Layers.
- I. Blocks.
- J. Sketch to plot.
- K. 3D perspectives.

VI. METHODS OF INSTRUCTION:

- A. **Lab** - Hands-on activities in computer laboratory.
- B. **Guest Lecturers** -
- C. **Lecture** - Including video presentations, readings from text, and other sources.
- D. **Projects** - Analysis and critiques of individual exercises and projects.
- E. **Demonstration** - Including basic CAD operations and procedures.

F. Field Trips -

VII. TYPICAL ASSIGNMENTS:

- A. Draw a simple landscape plan or floor plan for a garden structure.
- B. Draw a plan from measurement or other drawn plan.
- C. Do take off drawings; elevations, sections, and perspective.
- D. Do detail drawings.
- E. Draw an outdoor lighting plan.
- F. Draw patio or garden furniture layout.
- G. Presentation of a final finished design, using color, print-out, etc.

VIII. EVALUATION:

A. Methods

1. Projects
2. Class Participation
3. Lab Activities

B. Frequency

1. individual exercises periodically assigned by the instructor.
2. Final drawing project due at the end of the semester.
3. Weekly lab activities

IX. TYPICAL TEXTS:

1. Shumaker, Terrence. *AutoCAD and Its Applications Comprehensive 2018*. 25 ed., The Goodheart Wilcox Co., 2018.
2. Tickoo, Sham. *Auto Cad 2017: a Problem Solving Approach, Basic and Intermediate*. 23 ed., CADCIM Technologies, 2016.

X. OTHER MATERIALS REQUIRED OF STUDENTS: