

**HORT 91 Course Outline as of Fall 2005****CATALOG INFORMATION**

Dept and Nbr: HORT 91            Title: LANDSCAPE CONST/ESTIM  
 Full Title: Landscape Construction/Estimation  
 Last Reviewed: 4/26/2021

Units	Course Hours per Week		Nbr of Weeks	Course Hours Total		
Maximum	3.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00	Lab Scheduled	3.00	17.5	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 157.50

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:**

Introduction to the field of landscape contracting, including the Contractor's Law Book and cost estimating and bidding procedures. Course includes hands-on experience with tools, materials, and methods used in the construction of wood and simple concrete and masonry landscape features. Projects are designed to develop the skills necessary for successful performance on the C-27 landscape contractor's licensing exam. This course is equivalent to HORT 91.1 and HORT 91.2; students successfully completing those courses are not eligible to enroll in this course.

**Prerequisites/Corequisites:****Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100.

**Limits on Enrollment:****Schedule of Classes Information:**

Description: Introduction to landscape contracting, Contractor's Law Book, cost estimating and bidding. Hands-on experience with tools, materials, and methods used in construction of wood and masonry landscape features. This course is equivalent to HORT 91.1 and 91.2; students

successfully completing those courses are not eligible to enroll in this course. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100.

Limits on Enrollment:

Transfer Credit: CSU;

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:

**CSU Transfer:** Transferable Effective: Fall 2004 Inactive:

**UC Transfer:** Effective: Inactive:

**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

**COURSE CONTENT**

**Outcomes and Objectives:**

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

1. Evaluate careers in the landscape industry.
2. Summarize landscape contracting laws.
3. Describe C-27 licensing requirements.
4. Interpret landscape plans in order to construct a specific landscape element.
5. Select lumber, tools, and materials for basic landscape construction projects.
6. Estimate the cost of materials and labor for basic landscape construction projects.
7. Describe the various materials that can be used to construct a fence.
8. Design basic wood landscape features utilizing a variety of styles.
9. Calculate riser to tread ratios for step construction.
10. Construct a simple wood landscape structure.
11. Mix, pour, and finish concrete to form a patio or walkway landscape feature.
12. Compare alternate pavings for patio and walkway areas.
13. Estimate the cost of materials for simple concrete and masonry landscape features.
14. Design basic masonry landscape features and select materials for construction.
15. Construct a simple landscape feature using brick or paving materials.

**Topics and Scope:**

1. Introduction
2. Scope of the landscaping contracting industry
  - a. Scope
  - b. Careers and jobs
3. California state contractors laws, rules, and regulations
  - a. Licensing
  - b. C-27 exam
  - c. Fees
  - d. Requirements
  - e. Scope of license
  - f. Exempt
4. Estimating procedures
5. Lumber and its uses
6. Fence design
  - a. Purpose
  - b. Construction elements
    1. Post & rail spacing
    2. Footings
    3. Fasteners
  - c. Styles
7. Gate design
  - a. Relationship to the fence
  - b. Frame construction
  - c. Hardware/fasteners
  - d. Hanging techniques
8. Deck design
  - a. Purpose
  - b. Construction elements
  - c. Ground level vs. raised (comparisons)
  - d. Decking options
  - e. Fastener options
9. Garden step design
  - a. Purpose and uses
  - b. Riser/tread ratios
  - c. Construction elements
  - d. Fastener options
10. Retaining wall design
  - a. Purpose
  - b. Material selection
  - c. Construction specifications
  - d. Drainage concerns
11. Masonry elements
  - a. Uses
  - b. Characteristics
  - c. Industry specifications
12. Walkway and patio design
  - a. Construction elements
  - b. Industry specifications
  - c. Site preparation
  - d. Installation procedures
    1. Headers
    2. Base

3. Dry vs. wet
13. Raised planter and retaining wall design
  - a. Construction elements
  - b. Industry specifications
  - c. Site preparation
  - d. Installation procedures
    1. Foundation
    2. Unit courses
    3. Mortar techniques

**Assignment:**

1. Read 3 trade articles.
2. Write 1 trade article summary/response paper (1 page).
3. Demonstrate proper use of hand and power tools.
4. Prepare material and cost estimates.
5. Design, construct, and install simple wood landscape structures.
6. Design a concrete patio and walkway.
7. Design masonry patio and walkway.
8. Design masonry retaining wall.
9. Construct and install simple concrete and/or masonry landscape structures.
10. Three quizzes, one exam.
11. Assigned readings in textbooks, 25 - 40 pages per week.

**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.

Reading reports	Writing 5 - 15%
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**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Cost estimates.	Problem solving 20 - 30%
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**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances	Skill Demonstrations 30 - 40%
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**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion	Exams 20 - 30%
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**Other:** Includes any assessment tools that do not logically fit into the above categories.

None

Other Category  
0 - 0%

**Representative Textbooks and Materials:**

State Contracting Board, California Contractors License Law & Reference.  
Sacramento, CA: 1998.

All About Decks. Ortho Books, 2000.

All About Fences & Gates. Ortho Books, 2001.

Sauter, David. Landscape Construction. Del Mar, 2000.

California Landscape Standards. CLCA, 1989.

All About Patios. Ortho Books, 2000.

All about Masonry. Ortho Books, 2000.