HORT 54D: LANDSCAPE CONSTRUCTION: APPLIED PRACTICES

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2022
Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Advisory:	HORT 54A strongly recommended.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- Construct specialized and advanced landscape projects.
- Operate motorized landscape equipment.

Description

The practical application of landscape construction practices to actual projects. Emphasis on field work which may include the design and construction of landscape amenities, carpentry, paving, or wall projects. Training on motorized equipment, such as tractors and backhoes used in landscape construction.

Course Objectives

The student will be able to:

a. Demonstrate, through demonstration and project implementation, the safe construction of specialized and advanced landscape projects.
b. Demonstrate knowledge of specialized and advanced landscape construction practices, including materials, hardware, and implementation.
c. Operate motorized equipment such as tractors, backhoes, and appurtenant equipment used in landscape construction practices.
d. Exhibit an understanding of different landscape construction practices around the world.

Course Content

a. Review of landscape construction practices (Lec and Lab)
    i. Equipment and personal safety
b. Instruction in and execution and management of landscape practices using masonry, concrete, carpentry, and hardware on advanced landscape projects (may include a variety of specialized projects) (Lec and Lab)
    i. Wall construction
    ii. Concrete pouring
    iii. Carpentry and wood construction
    iv. Specialty construction
    v. Project planning
    vi. Material estimation
    vii. Project scheduling
    viii. Construction supervision
c. Use of motorized equipment (motorized carts, backhoe, and tractor with appurtenant attachments, etc.) (Lab)
    i. Skidsteer operation
    ii. Grading a site
    iii. Site demolition equipment including sod cutter and jackhammer
    iv. Power tool operation
d. International landscape construction practices discussion (Lec)

Lab Content

a. Construction of paved areas
    i. Concrete pouring
    ii. Brick paving
    iii. Stone paving
b. Construction of wood structures
    i. Deck construction
    ii. Fence construction
c. Construction of landscape walls
    i. Installation of segmental concrete wall units
    ii. Masonry wall construction
d. Installation of landscape drainage
    i. Installation of french drains
    ii. Installation of minor storm sewer projects

Special Facilities and/or Equipment

1. Design lab, horticultural facilities and equipment.
2. Students provide appropriate work boots and clothing for fieldwork, leather gloves, tool belt, hammer, tape measure, screwdrivers, torpedo level, pliers, utility knife, face mask, ear plugs, and architectural scale.
3. When taught online, on-going access to computer with email and internet access.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Practicums in the following areas:
1. Completion of specialized and advanced landscape construction projects
2. Operation of motorized equipment such as tractors and backhoes

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Lectures
Discussions
Lab activities
Assigned reading activities

Representative Text(s) and Other Materials

Huston, James R.. How to Price Landscape and Irrigation Projects. 2014.

This text is a seminal text in the landscape construction industry.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

a. Reading assignments will include reading approximately 20-30 pages per week from assigned text. Supplemental reading will be provided in hand-out form or through reference to online resources
b. Writing assignments include:
    i. Instructions for completing construction tasks
c. Other:
    i. Lectures will address reading topics and experiences of instructor. Classroom discussion and demonstrations in support of lecture topics will be provided
    ii. Guest speakers from industry will provide supplemental lecture and demonstration

Discipline(s)

Ornamental Horticulture