

HORT 54D: LANDSCAPE CONSTRUCTION: APPLIED PRACTICES

Foothill College Course Outline of Record

Heading	Value
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:

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

Course Content

- Review of landscape construction practices (Lec and Lab)
 - Equipment and personal safety
- 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)
 - Wall construction
 - Concrete pouring
 - Carpentry and wood construction
 - Specialty construction
 - Project planning
 - Material estimation
 - Project scheduling
 - Construction supervision

- Use of motorized equipment (motorized carts, backhoe, and tractor with appurtenant attachments, etc.) (Lab)
 - Skidsteer operation
 - Grading a site
 - Site demolition equipment including sod cutter and jackhammer
 - Power tool operation
- International landscape construction practices discussion (Lec)

Lab Content

- Construction of paved areas.
 - Concrete pouring
 - Brick paving
 - Stone paving
- Construction of wood structures.
 - Deck construction
 - Fence construction
- Construction of landscape walls.
 - Installation of segmental concrete wall units
 - Masonry wall construction
- Installation of landscape drainage.
 - Installation of french drains
 - Installation of minor storm sewer projects

Special Facilities and/or Equipment

Design lab, horticultural facilities and equipment. 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.

Method(s) of Evaluation

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

Method(s) of Instruction

- Lectures.
- Discussions.
- Lab activities.
- Assigned reading activities.

Representative Text(s) and Other Materials

Sauter, David. *Landscape Construction*. 3rd ed. Clifton Park, NY: Thomson Cengage, 2010. (This text is a seminal text in the landscape construction industry.)

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

- 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 on-line resources.
- Writing assignments include:
 - Instructions for completing construction tasks.

C. Other:

1. Lectures will address reading topics and experiences of instructor. Classroom discussion and demonstrations in support of lecture topics will be provided.
2. Guest speakers from industry will provide supplemental lecture and demonstration.

Discipline(s)

Ornamental Horticulture