

# HORT 90X: WATER CONSERVATION IN LANDSCAPE DESIGN

## Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2021
Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

## Student Learning Outcomes

- Describe characteristics associated with drought tolerant plants.
- Discuss methods of auditing water use in gardens.

## Description

Applies principles of water conservation to landscape design and construction projects. Landscape designs which incorporate water-conserving principles strive to limit the need for water and strike a balance between softscape and hardscape elements.

## Course Objectives

The student will be able to:

- Exhibit an understanding of water conservation concepts and terminology as they apply to landscapes.
- Design residential landscapes.
- Describe characteristics associated with drought tolerant and low water plants.
- Demonstrate an understanding of the process used for irrigation of drought tolerant landscapes.
- Discuss methods for constructing landscape elements.

## Course Content

- Principles of water conservation in landscaping
  - Water conserving trends in the landscape design industry
  - Planning for drought conditions in the landscape
- Landscape design
  - Hardscape design issues and criteria
  - Softscape design issues and criteria
  - Learning from other cultures
- Plant material selection
  - Native/indigenous plants
  - Drought tolerant plants (flora from Mediterranean climates)
  - Appropriate use of non-water conserving plants
- Irrigation systems
  - Drip irrigation
  - Spray irrigation
  - Water auditing

- Landscape construction issues and criteria

## Lab Content

Not applicable.

## Special Facilities and/or Equipment

- Design laboratory, construction field lab, and related horticultural facilities and equipment.
- Students provide work boots, leather gloves, and clothing for field work.

## Method(s) of Evaluation

Project (irrigation, planting, or landscape construction project or study relating to the principles of water conservation)  
Design of a residential landscape using low water plants

## Method(s) of Instruction

Lecture  
Demonstrations  
Discussions

## Representative Text(s) and Other Materials

Tallamy, Douglas. [Nature's Best Hope](#). 2020.

Perry, Robert C.. [Landscape Plants for California Gardens](#). 2010.

Although the Perry text is older than the suggested "5 years or newer" standard, it remains a seminal text in this area of study.

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

- Reading assignments include reading approximately 20 pages per week from the assigned text (two hours).

## Discipline(s)

Ornamental Horticulture