

## Section I: Course Description

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**Department:** Landscape Horticulture (LHO)

**Division:** Hospitality and Service Occupations

**Curriculum:** Landscape and Environmental Horticulture

**Revision:** Josh Bruner

**Course Title:** Introduction To Irrigation And Drainage Systems

**Effective Date:** June 2000

**Course Number:** LHO135

**Status:** Active

**Type Of Course:** Vocational Preparatory

**Course Length:** 1 Quarter

**Credit Hours:** 4

**Lecture Hours:** 33

**Lab Hours:** 22

**Class Size:** 20

**Prerequisites:** None

### Course Description

An in-depth study of irrigation and drainage installation technique, theory, and cost management.

## Section II: Student Learning Outcomes

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### Student Learning Outcomes

1. Communication - Be able to identify and describe the function of components to fellow installers and customers.
2. Technique - Be able to properly install components per the manufacturer recommendations.
3. Management - Be able to direct fellow installers where to begin the process so that it is efficient and cost effective.
4. Cost Management - Be able to purchase materials and track costs sufficiently through the installation process.
5. Critical Thinking - Use critical thinking methods to troubleshoot obstacles that are encountered during the installation process.
6. Information Literacy - Be aware of available suppliers, reference materials, and industry organizations to help further academic and personal goals.

## Section III: Course Objectives

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### General Course Objectives

At the end of the course the student will be able to:

1. Install an irrigation system from an existing plan.

2. Install a drainage system from an existing plan.
3. Demonstrate critical thinking skills while encountering obstacles.
4. Be able to track costs incurred while installing systems.

## Section IV: Course Outline

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### Topical Course Outline

Topical Outline:

Hours		Approx.
I.	Hydraulic principals, types of irrigation and drainage systems, components, and functions	20
II.	Installation of an irrigation and drainage system	25
III.	Critical thinking when encountering obstacles	6
IV.	Cost management while installing an irrigation system	4
	Total	55