

HORT 90I: LANDSCAPE SUSTAINABILITY PRACTICES

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

- Demonstrate skills in developing and maintaining landscapes according to sustainable principles.
- Define approaches to solving landscape and gardening problems by applying ecological principles.

Description

Principles and practices utilized in the design, implementation, and maintenance of sustainable landscapes and gardens. Reviews ecological principles of sustainability for efficient energy use in the environment.

Course Objectives

The student will be able to:

- Describe plant growth
- State the role of soils in plant production
- Plan water management in the garden
- Perform composting in a residential landscape
- Describe pest management for a residential landscape
- Restate regulations for selling organic and organic related products
- Plan the marketing of organically produced products
- Describe cultural need and growth of sustainable products

Course Content

- Energy systems and concepts for plant production
- Role of soils (nutrients and microbes) in plant production
- Water management in sustainable landscaping and gardening
- Composting methods and use
- Insect and disease management
- Conceptual and regulatory issues to produce and sell "chemically free" and "organically grown" vegetables, herbs and flowers
- Marketing and sales of vegetables, herbs, plants, and flowers produced
- Cultural diversity and the sustainability concept

Lab Content

Not applicable.

Special Facilities and/or Equipment

- Horticultural laboratory, sustainable garden, greenhouse, and related horticultural facilities and equipment.
- Students provide pruning shears with sheath, work boots, leather gloves and clothing for field work.

Method(s) of Evaluation

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

- Student field demonstration of concepts
- Special project (paper, project or report on sustainable products)

Method(s) of Instruction

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

- Lecture
- Demonstrations
- Discussions

Representative Text(s) and Other Materials

CaliKim. [Organic Gardening for Everyone](#). 2019.

Calkins, Meg. [The Sustainable Sites Handbook, 1st ed.](#) 2012.

The Calkins text is a seminal piece and contains valid relevant material.

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

- Reading assignments will include reading approximately 50 pages per week from the assigned text.
- There are no writing assignments for this course.

Discipline(s)

Ornamental Horticulture