

PST-2431: PLANTING DESIGN

Cuyahoga Community College

Viewing: PST-2431 : Planting Design

Board of Trustees:

MAY 2025

Academic Term:

Fall 2025

Subject Code

PST - Plant Science/Landscape Tech.

Course Number:

2431

Title:

Planting Design

Catalog Description:

Emphasis on the design relationships of plants to their optimum and intended environments. Basic and advanced planning design principles and techniques that address the aesthetic, environmental, and engineering uses of plant material. Preparation of various design project drawing types and a personal palette including woody and herbaceous materials for more complex landscape design solutions.

Credit Hour(s):

3

Lecture Hour(s):

2

Lab Hour(s):

3

Requisites

Prerequisite and Corequisite

PST-1441 Introduction to Landscape Design, or departmental approval: Faculty may require samples of previous work to determine skill level.

Outcomes

Course Outcome(s):

Select appropriate plants for specific landscape design scenarios.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Objective(s):

1. Select appropriate plants considering climate, light exposure, soil conditions, and client needs.
2. Select appropriate plants to align with design theme and/or color schemes.

Course Outcome(s):

Create a landscape design that meets client needs.

Essential Learning Outcome Mapping:

Oral Communication: Demonstrate effective verbal and nonverbal communication for an intended audience that is clear, organized, and delivered effectively following the standard conventions of that language.

Objective(s):

1. Perform a client interview.
2. Analyze client responses to determine design solutions.
3. Create a landscape design to scale that meets client needs.
4. Present the landscape design to client.

Course Outcome(s):

Demonstrate competent use of design principles and elements through a thorough understanding of materials, methods, and maintenance procedures.

Objective(s):

1. Create a landscape design using the design process.
2. Create a landscape design while considering color, texture, and form.

Course Outcome(s):

Utilize color theory in a landscape planting plan.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Utilize a specific color theme to select appropriate plants.
2. Recognize concepts related to color theory.

Course Outcome(s):

Create a site base map using on site measurements.

Essential Learning Outcome Mapping:

Quantitative Reasoning: Analyze problems, including real-world scenarios, through the application of mathematical and numerical concepts and skills, including the interpretation of data, tables, charts, or graphs.

Objective(s):

1. Utilize measuring tools to capture accurate measurements of a landscape site.
2. Utilize measurements to create a site base map to scale.

Methods of Evaluation:

1. Homework
2. Design projects
3. In-class Speed Designs
4. Presentations

5. Quizzes

Course Content Outline:

1. Concepts
 - a. Interrelation between softscapes and hardscapes
 - b. Design principles
 - c. Form, color, texture, size, composition
 - d. Client discovery interview techniques
2. Skills

- a. Interviewing and client discovery
- b. Selecting and evaluating plant materials as solutions for specific design problems
- c. Graphic communication and rendering techniques
- 3. Issues
 - a. Soil
 - b. Drainage
 - c. Environmental
 - d. Sun
 - e. Shade
 - f. Plant cultural requirements
 - g. Microclimate
 - h. Plant communities
 - i. Ecology

Resources

Booth, Norman and James Hiss. *Residential Landscape Architecture*. 7th. Upper Saddle River, NJ: Pearson Prentice Hall, 2017.

Bertanski, Tony. *Designing the Landscape; An Introductory Guide for the Landscape Designer*. Kindle. Upper Saddle River, NJ: Pearson Prentice Hall, 2021.

Bertanski, Tony. *Plan Graphics for the Landscape Designer; with Section-Elevation and Computer Graphics*. 3rd. Upper Saddle River, NJ: Pearson Prentice Hall, 2018.

Siciliano, Paul. *Landscape Interpretations: History, Techniques, and Design Inspiration*. 1st. Clifton Park, NY: Thompson Delmar Learning, 2005.

Skiba, Richard. *Landscape Design and Construction*. After Midnight Publishing, 2024.

Resources Other

Association of Professional Landscape Designers – Landscape Design Resources: <https://apld.memberclicks.net/landscape-design-resources>. 2025.

Encyclopedia of Landscape Design - <https://www.dk.com/us/book/9781465463852-encyclopedia-of-landscape-design/>. 2023.

Top of page

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