

Lecture Contact Hours: 32-36; Outside-of-Class Hours: 64-72;
Laboratory Contact Hours: 48-54; Outside-of-Class Hours: 0;
Total Student Learning Hours: 144-162

CUYAMACA COLLEGE
COURSE OUTLINE OF RECORD

Ornamental Horticulture 151 – Landscape Architecture II

2 hours lecture, 2 units
3 hours laboratory, 1 unit
Total units: 3

Catalog Description

Principles of landscape architecture for public and residential projects with an emphasis on the creation of usable, pleasant outdoor spaces. Focuses on cohesive set of construction drawings (site plan, planting plan, grading plan, lighting plan, and basic construction details) using industry drafting standards. The lab emphasizes hands-on design exercises and drafting of landscape projects using hand graphics and computer-generated drawings.

Prerequisite

“C” grade or higher or “Pass” in OH 150 or equivalent

Entrance Skills

Without the following skills, competencies and/or knowledge, students entering this course will be highly unlikely to succeed:

- 1) Ability to assess a given site for its constraints and opportunities and create a cohesive site design and planting plan.
- 2) Use industry drafting standards to create biddable landscape architecture drawings that emulate the client’s program desires.
- 3) Use design theory and history as framework for design concepts.
- 4) Explain the landscape architect’s role in a construction project.
- 5) Ability to integrate environmentally sustainable concepts in landscape designs.

Course Content

- 1) Lecture:
 - a. Advanced landscape drafting techniques
 - b. Advanced design theory, process and techniques
 - c. Construction set compilation: site plan, planting plan, demolition plan, grading plan, lighting plan and basic construction details
 - d. Three-dimensional design using models, section, elevation, and perspective drawings.
 - e. Budgets and costs of construction as well as interpreting drawings from allied professions.
- 2) Lab: sequential series of projects which lead students through design process. Presentations will be verbal, written, and graphic.
- 3) Advanced landscape drafting techniques; including illustrative presentation graphics, hand graphics, and drafted construction drawings.
- 4) Advanced design theory, process and technique; using the design of the architecture for inspiration, following historical landscape architecture iconography and iterative design processes.
- 5) Construction set compilation:
 - a. Site plan: containing all the built items to scale and with appropriate materials

- b. Planting plan: laying out the plants on the plan using locally appropriate plants for the climate, sun and soil profiles
 - c. Demolition plan: showing all items on the site that will be demolished and removed
 - d. Grading plan: showing the vertical characteristics of design, using standard site engineering protocols
 - e. Lighting plan: showing each type of light and where it will be placed.
 - f. Basic construction details: using industry material graphic standards, showing how items in the design shall be built.
- 6) Three-dimensional design using models, section, and elevation. Using one- and two-point perspective frameworks to create sketches describing the design.
 - 7) Budgets and costs of construction as well as interpreting drawings from allied professions.
 - 8) Accessible design solutions for universal access for a variety of users.
 - 9) Federal, state, and local design requirements for universal and sustainable design.

Course Objectives

Students will be able to:

- 1) Analyze the physical and legal opportunities and constraints of a site to create site analysis drawings and use it as a tool for subsequent design.
- 2) Use industry drafting standards to create a set of landscape plans; including site plan, planting plan, demolition plan, grading plan, lighting plan and basic construction details
- 3) Integrate pedestrian and vehicular circulation, appropriate material choices to create thoughtful design concepts.
- 4) Explore design options using iterative design process as well as design theory and themes as guides.
- 5) Investigate design strategies to create security in both residential and public spaces.
- 6) Explore three-dimensional design using models, sections, elevations, and perspective drawings.
- 7) Interpret topography maps for use in landscape grading and drainage plans.
- 8) Use architecture and engineering drawings to better understand the overall construction process. Explore industry graphic conventions.
- 9) Use computer-generated drawings to communicate overall design concepts.
- 10) Participate in group and individual projects.
- 11) Utilize verbal, written, and graphic drawings (both hand-drawn and computer-generated) to communicate design ideas in both individual and group projects.

Method of Evaluation

A grading system will be established by the instructor and implemented uniformly. Grades will be based on demonstrated proficiency in the subject matter determined by multiple measurements for evaluation, one of which must be essay exams, skills demonstration or, where appropriate, the symbol system.

- 1) Students will be assigned projects and exercises, including a final project, that measure student's ability to design thoughtful and cohesive landscape architecture plans.

Special Materials Required of Student

Drafting supplies: 45° triangle, 30/60° triangle, 2H, H, 2B, 4B and F drafting pencils, sketchbook (8 ½" x 11") architect and engineer scales, circle templates, role of 12" trace paper, black felt tip pen ultra fine, kneaded eraser, colored pencils

Minimum Instructional Facilities

- 1) Classroom with one drafting table per student (tables should have drafting machine or built-in "T" square)

- 2) Twelve 100-foot surveyor tape measures (or measuring wheel?)
- 3) Large format copy machine and paper (11 x 17)
- 4) Plan file cabinet
- 5) Large drawing sheets (24 x 36)

Method of Instruction

- 1) Lecture and demonstration
- 2) Projects

Out-of-Class Assignments

- 1) Reading assignments
- 2) Drawing assignments

Texts and References

- 1) Required (Representative example):
 - a. Booth, Norman and James Hiss. *Residential Landscape Architecture*. 7th edition. Pearson, 2018.
 - b. Bertauski, Tony. *Plan Graphics for the Landscape Designer*. 3rd Edition. Waveland Press, 2019.
- 2) Supplemental:
 - a. Bertauski, Tony. *Designing the Landscape: An Introductory Guide for the Landscape Designer*. 3rd Edition. Waveland Press, 2022.

Exit Skills

Students having successfully completed this course exit with the following skills, competencies and/or knowledge:

- 1) Ability to assess a given site for its physical and legal opportunities and constraints and create a cohesive set of construction drawings.
- 2) Use industry drafting standards to create biddable landscape architecture drawings that includes appropriate material descriptions and emulates the client's program desires.
- 3) Ability to explain the designed site plan's qualities of environmental sustainability, thoughtful design, cost effectiveness, security and pleasing aesthetics.
- 4) Use iterative design techniques to create design concepts that integrate given criteria and program elements.
- 5) Communicate design ideas using three-dimensional drawings, models and computer-generated graphics.

Student Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1) Design and draw a landscape architecture project using advanced principles of design.
- 2) Organize a project in a team environment and present the project to the client.
- 3) Create a cohesive set of landscape architecture drawings that are suitable for construction bidding and client communication.