

LA 366 Landscape Technologies II

Course description: Consideration of aesthetic and engineering properties of materials and processes of landscape construction; communication of design intent through documentation.



“Utility does not permit unsoundness or frailty, for between use and beauty there is a close relationship. Utility demands faithfulness in objects; it does not condone human self-indulgence. In creating an object intended for practical use, the maker does not push himself to the foreground or even, for that matter, to the surface. With such objects, self-assertion and error – if present at all – are reduced to a minimum. This may be one reason why useful goods are beautiful.”

Muneoshi Yanagi (1889–1961),
The Unknown Craftsman; A Japanese
Insight into Beauty (1989).

Course Objectives:

- Understand *materials* that comprise the built landscape,
- Comprehend basic *engineering* principles,
- Establish the essential *vocabulary* of landscape construction,
- Practice the *graphic* language of landscape detailing,
- Hone skills of hand *lettering* and hand *drawing* related to detail mechanics,
- Explore inspiring designers’ *built works* and local neighborhood examples.

Course structure: The class will meet twice a week, with a general schedule of one to two hours inside for lectures and one hour or less outside exploring materials in a physical sense. Journal assignments will be due every Tuesday alternating with the quiz and mid-term exam. Assigned readings will accompany lectures and will aid in completion of required drawings. The final project will be an assembly, elaboration and improvement of the weekly drawing assignments resulting in a basic collection of detail types for future use.

Technologies II, LA 366

Spring 2017

Arica Duhrkoop-Galas and Keegan Oneal
Tuesdays and Thursdays, 10:00-11:50

Prerequisite: Tech I, LA 362
4 Credits

This course explores landscape materials, aesthetic and engineering properties, and basic structures while developing graphic skills relevant to the design process – from schematic concept to communication of design intent to construction documentation.

The Schedule:

Tuesday	Thursday
4.04 Introduction & Journaling	4.06 Detail mechanics & Lettering
4.11 Soils & Engineering Assign 1 due: pictures	4.13 Foundations & Connections
4.18 Wood QUIZ	4.20 Masonry: Stone
4.25 Masonry: Brick Assign 2 due: stone masonry	4.27 Masonry: Concrete
5.02 Concrete & Asphalt Assign 3 due: brick/conc. masonry	5.04 Metal, Glass, Plastic
5.09 MIDTERM EXAM	5.11 Stairs, Ramps, Curbs
5.16 Walls Assign 4 due: stairs	5.18 Fences, Screens
5.23 Wooden structures Assign 5 due: fences/screens	5.25 Decks, bridges, platforms
5.30 Horticultural bldg. systems Assign 6 due: wooden structures	6.01 Stormwater Pinup/Final Prep.
6.06 R E V I E W W E E K / N O C L A S S	6.08

FINAL PROJECT DUE 9:30 am, Monday June 12

Grades: Grades will be based on six journal assignments (120 points), six lettering pages (30 points), a final project (80 points), one quiz (40 points), and a mid-term exam (60 points).

Required books:

Landscape Architectural Graphic Standards, Leonard J. Hopper, 2007.

Optional books:

Sustainable Landscape Construction: A Guide to Green Building Outdoors, 2nd Ed., J. William Thompson and Kim Sorvig, 2007.

Constructing Landscape: Materials, Techniques, Structural Components, Astrid Zimmerman, 2009.

Additional resources:

Materials for Sustainable Sites, Meg Calkins, 2008.

Graphic Guide to Site Construction, Rob Thallon and Stan Jones, 2003.

Landscape Construction, David Sauter, 2010.

Landscape Architecture Construction, Landphair & Klatt, 1998.

The Greenroof Manual, Snodgrass & McIntyre, 2010.

Timesaver Standards for Landscape Architecture, Charles Harris and Nicholas Dines, 1998.

Learning objectives

Upon completion of the course with a satisfactory grade students will be able to:

- analyze built works through sketchbooks and make inferences about their construction
- understand basic principles of soils and engineering relative to landscape structures
- apply knowledge of building materials and vocabulary to drawing construction details
- specify standard construction methods for typical landscape structures
- properly apply line weights to help clarify detailed materials
- redline details and provide corrections
- hand letter

If you have a documented learning disability and anticipate needing accommodations in this course, please make arrangements to meet with Arica soon. Please request that the Counselor for Students with Disabilities send a letter verifying your disability.