

MATERIALS III : ASSEMBLIES & PLANTING TECHNOLOGIES



“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).

CRN 3XXXX & 3XXXX

time Mon & Wed 10:00-11:50 am, in person - no remote options
Fridays 9:00-11:50 - field trip locations vary per class announcement

location Straub Hall 254

credits 4

instructor Arica Duhrkoop--Galas, Senior Instructor I, ASLA, RLA
office: Lawrence Hall 212, office hours by appointment and immediately before and after class times
email: aricad@uoregon.edu

class description *Consideration of aesthetic and engineering properties of materials and processes of landscape construction; communication of design intent through documentation. Spring plants focuses on flowering plants, their identification and design use, and the ecosystem services they provide. It is open to all majors and may be taken as an independent class or as the third class in the Plants sequence. The course will weave together the threads of plant ID, plant care, plant selection, and planting design. Plant identification focuses on flowering trees and shrubs, groundcovers and perennials, with the intention of understanding how flowering plants may be used in design to support both human needs and ecosystem functions. Sketchbook/Journal assignments will help students learn to identify plants via flower morphology and practice a series of short planting design and planning scale investigations.*

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Lectures and field trips will introduce students to a variety of design scales with the

underlying themes of four categories of ecosystem services:

- *Supporting services - such as soil formation and nutrient cycling;*
- *Provisioning services - including the food, fuel, fiber and medicines we collect from natural and managed ecosystems;*
- *Regulating services - stormwater management and climate regulation, carbon sequestration, and pollination;*
- *Cultural services - the beauty of the outdoors and the recreational, therapeutic, educational and spiritual roles of plants in human quality of life.*

assignments

Journal assignments will investigate needle/scale morphology and practice drawing techniques via a sketchbook. Work packets will practice landform calculation and design and standard graphics. Students will be responsible for redlining based on provided solutions to engage analytical skills.

final project

The final project will be a fully developed planting plan practicing one of the themes we have covered in class or students may propose an independent study based on their major or studio project. Themes include but are not limited to stormwater gardens, phytoremediation, pollinator gardens, green roofs, color-based design, perennial edibles, or sustainability such as drought tolerant, native and native analogue for climate change, restoration.

learning outcomes

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

- Understand materials that comprise the built landscape
- 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
- Correctly identify and name an additional 120?? plants
- Understand how flowers and fruit help distinguish plant families
- Apply basic color theory to planting designs
- Evaluate plant combinations and correct poor combinations
- Design a space the celebrates/enhances/explores one or more of the ecosystems services categories
- Produce a seasonally balanced plant list and a fully labeled planting plan

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schedule

*subject to change, refer to Canvas and instructor emails

Monday		Wednesday		Friday	
4/3	Introduction Detail mechanics & lettering	5	Reading Summary (Green Infrastructure) + plants	7	Lecture/Lab Flower Morphology Color Theory
10	Soils & Foundations	12	Pollinator mini-talk + plants	14	Field Trip/Guest Lecture (Greenroofs &) Stormwater Journal 1 review
17	Materials Quiz Wood	19	Reading Summary (Emerging Landscapes) + plants	21	Field Trip: Residential Garden + plants Journal 2 review
24	Masonry: Stone, Brick, Concrete	26	Test #1	28	Planting Plan Mechanics + plants
5/1	Poured concrete & Asphalt	5/3	Phytoremediation mini + plants	5	Review design proposals and preliminary plant lists
8	Materials Midterm Exam	10	Reading Summary (Urban Birds & Plant Des.) + plants	12	Field Trip Armitage Nursery
15	Grade change devices: Walls, Stairs, Ramps	17	Reading Summary (Phyto Chapter 1) + plants	19	Planting Plan Review
22	Wooden assemblies: Fences, Screens, Structures	24	Climate Resilience mini + plants	26	Field Trip Grassroots Garden Journal 3 review
29	NO CLASS MEMORIAL DAY HOLIDAY	31	Test #2	6/2	Field Trip West Eugene Wetlands
5	R E V I E W W E E K , N O C L A S S				
12	Optional Test #3 Monday June 12, 10:15 am, Detail Journal due Wednesday June 14 5:00pm				

Note: Schedule subject to change. Check your email prior to departing for meeting location. Students are responsible for reading course updates from instructor - sent via Canvas email.

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canvas Course documents, assignments, and information will be uploaded to Canvas. All your schedules and submittal requirements can be found there. Primary course communication will occur on Canvas. Make sure you have Canvas alerts turned on so you are notified of updates.

To access our course Canvas site, log into canvas.uoregon.edu using your DuckID. If you have questions about using Canvas, visit the Canvas support page. Canvas and Technology Support also is available by phone (541-346-4357) or by live chat on the Live Help webpage.

grades Grades will be based on a materials quiz (40 points) a materials mid-term exam (60 points), a detail journal (100 points), the best two out of three plant ID tests (200 points), a two-part planting design exercise (120 pts combined), three plant journal assignments (60 pts), and field trip attendance (10 pts/ea = 50 pts). The grading scale is unusual because the heavy focus is on design and graphic work rather than testing knowledge.

Test scores must average 65 or better to pass the class. Grading rubrics for each assignment to be provided on Canvas along with assignment detail. The grading scale is:

100 %= A+	90-91= B+	81-82= C+	72-73= D+
94-99= A	85-89= B	76-80= C	67-71= D
92-93= A-	83-84= B-	74-75= C-	65-66= D-
			64 and below= NP

supplies Recommended supplies:
'Prismacolor' colored pencils, 'Rite in the Rain' all-weather writing paper, 5x/10x hand lens, approximately 8.5x11" sketchbook, engineering scale, red pen or pencil, drafting pens and pencils.
All of these items may be purchased at the bookstore. Students needing financial assistance with purchases may apply for a subsidy through UO's Basic Needs Program.

required books Recommended for assemblies & detailing:
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.

Several books have been ordered for Spring term and are available at the bookstore. They are all optional, but we feel they would be particularly helpful to this class and your design work. Select which books you