

LARC 433_Design Implementation

Winter Quarter 2017

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TAs: (Bill) William Estes, westes@uw.edu
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Class Meets: M/W_11:00-12:20, Gould 114
Office Hours: Erika: W_12:30-1:30, Gould Design Coffee Shop unless otherwise noted
Bill: Tue_12:30-1:30,
Tatyana: Fri_11:00-12:00,
Server: The course has its own server space where you will store your working files:
<\\solo.be.uw.edu\larch433a> See the end of the syllabus for instructions on mapping to it.
Canvas: All course information and files are on Canvas, and instructors will send out messages and notifications there; make sure you have notifications turned on.

Introduction

This course will provide you with an understanding of essential considerations in the construction documentation and realization of built landscapes. It will introduce you to skills in drafting construction drawings and provide an overview of construction specifications.

Goals

- learn conventions & graphic communication techniques for producing construction documents
- understand project implementation processes and the landscape architect's role as part of a team in this process
- advance CAD drafting skills related to CD production

We will develop construction documents for a redesigned open space on campus, working in pairs. We will operate as a design firm would, using shared standards and conventions, and working in small teams as a part of a larger team.

Classes

Class will meet on Mondays and Wednesdays in Gould 114. On average, one day a week will be topical lectures on construction documentation and the other day will be CAD instruction, desk crits and/or work time. Gould 114 is a [laptop computer lab](#). Each student will need to bring their own laptop (containing CAD) and a [mouse](#) with you each class period. AutoCAD instruction will be on a PC, and we highly recommend working on a PC as AutoCAD for Mac does not have an identical interface, or all the capabilities it was designed for on PC, making it harder to learn from our instruction. If you do not have a PC laptop, there are some that can be checked out in the front desk of the digital commons in the basement using your student ID.

Office hours (noted above) will be held by each of us each week, and we encourage you to come – we can help introduce shortcuts as well as troubleshoot issues. If you can't make any of those times, contact us to try and arrange a time that will work. Unless you've already coordinated an agreement to meet in studio with your TAs, please be respectful of Bill and Tatyana's time at their desk, they have their own courseloads, too.

Assignments

There will be nine (9) required assignments. They will be posted on the 433 Canvas site <https://canvas.uw.edu/courses/948222>. Unless otherwise specified, assignments should be submitted before class begins (11:00am) on the day the assignment is due. Assignments need to be turned in:

1) digitally via “Assignments” on the Canvas website and

2) printed on (to scale) 11x17s and given to instructors at the beginning of class.

Only one person from each team needs to turn in the assignment files and hard copies.

You will be required to participate in class and submit complete all assignments on time. **Late assignments will be penalized 5% per day late and will not be accepted if more than 3 days late.** In the event of extenuating circumstances, absences or extensions may be accommodated, provided you discuss them with us ahead of time.

A portion of your grade will also be attendance and participation; as an employee in a design firm, your presence and readiness to contribute to the team during work hours is important. You will likely find that coordinating schedules, especially with shared, linked files, is complex; working together during the scheduled hours will be valuable.

Assignment 1	<u>1/4 – 1/11</u>
Schematic Design	
Assignment 2	<u>1/11 – 1/18</u>
Skeleton Set	
Assignment 3	<u>1/18 – 1/25</u>
Layout/Materials Plan	
Assignment 4	<u>1/25 – 2/1</u>
Grading Plan	
Assignment 5	<u>1/30 – 2/6</u>
Planting Plan, Plant Schedule	
Assignment 6	<u>2/1 – 2/10</u>
Details	
Assignment 7	<u>2/8 – 2/22</u>
50% CDs (In-Class Peer Review)	
Assignment 8	<u>2/22 – 3/1</u>
90% CDs	
Assignment 9	<u>3/1 – 3/13</u>
100% CDs	

Grading

Grades are weighted as follows:

Assignment 1:	10%
Assignment 2:	5%
Assignment 3:	5%
Assignment 4:	5%
Assignment 5:	5%
Assignment 6:	5%
Assignment 7:	10%
Assignment 8:	20%
Assignment 9:	30%
Participation:	5%
Total:	100%

Calendar

	Monday	Wednesday
wk 1		1.4 INTRO / FUNDAMENTALS Lecture: Introduction, Design Phases, Site Background, CAD model setup Assign: Schematic Design, Select Groups, Visit Site
wk 2	1.9 CAD Workshop	1.11 CD ORGANIZATION Lecture: CD Org./Cover Sheet Due: Schematic Design Assign: Skeleton Set
wk 3	1.16 No Class (MLK Day)	1.18 Lecture: Survey, Demo, SWPPP, Layout + Materials Plans Due: Skeleton Set Assign: Layout + Materials Plan Returned: Schematic Design Redlines
wk 4	1.23 CAD Workshop	1.25 GRADING + SITE SECTIONS Lecture: Grading Plan + Site Sections Due: Layout + Materials Plan Assign: Grading Plan Returned: Skeleton Set Redlines
wk 5	1.30 PLANTING Lecture: Planting Plan + Plant Schedule Assign: Planting Plan + Plant Schedule Returned: Layout + Materials Plan Redlines	2.1 DETAILS, NOTES + LEGENDS Lecture: Details, Notes + Legends Due: Grading Plan Assign: Detail Sheets

wk 6	2.6 CAD Lab / Desk Crits Due: Planting Plan, Plant Schedule Returned: Grading Plan Redlines	2.8 CAD Lab / Desk Crits Assign: 50% CD Set Due Friday 2.10: Detail Sheets
wk 7	2.13 SPECIFICATIONS + SHEET NOTES Lecture: Specifications + Sheet Notes Returned: Planting Plan, Plant Schedule Redlines	2.15 CAD Lab / Desk Crits Returned: Details Redlines
wk 8	2.20 No Class (Pres Day)	2.22 Assign: 90% + 100% CD Sets Due: 50% CD sets In Class: 50% CD Set Peer Redlining Returned Friday, 2.24: 50% CD Redlines
wk 9	2.27 CAD Lab / Desk Crits / Work Time	3.1 CAD Lab / Desk Crits / Work Time Due by end of class: 90% CD sets
wk 10 reviews Week	3.6 CAD Lab / Desk Crits / Work Time Returned: 90% CD Redlines	3.8 CAD Lab / Desk Crits / Work Time
wk 11 Exam wk	3.13 Due: 100% CD sets	

Core Readings

For reference, we encourage you to purchase (they are also on reserve in the library):

- ***Landscape Architecture Documentation Standards: Principles, Guidelines, and Best Practices, Design Workshop*** (this is also on reserve online as a PDF, as well)
- ***Landscape Architectural Graphic Standards Student Edition, Hopper, Leonard, J.***

The following core texts are helpful guide books that most practicing landscape architects use frequently, so purchasing these are encouraged as well, but they also will be on reserve in the library:

- ***Time-Saver Standards for Landscape Architecture, second edition: Harris, Charles and Dines, Nicholas***
- ***Time-Saver Standards Site Construction Details Manual, Dines + Brown***

Software

If you haven't already, acquire a student license for AutoCAD 2016 and download a copy to your laptop. Three year AutoCAD student licenses/ downloads are available for free at www.autodesk.com/education/free-software/autocad. AutoCAD 2016 is also available on most school computers and on loaner laptops.

Additional Resources:

CAD

Online tutorials, such as Lynda, highly encouraged
LARC 441 AutoCAD tutorials (uploaded to Canvas)

Construction Documents / Spatial Standards / Graphics

- *Time-Saver Standards for Landscape Architecture*, second edition: Harris, Charles and Dines, Nicholas
- Childs, Mark, *Parking Spaces*. McGraw-Hill, New York, 1999.
- Urban Land Institute, *The Dimensions of Parking*. Washington, DC, 2000

Detailing

- Brown, Kyle D. and Dines, Nicholas T. *Timesaver Standards Concise Site Construction Details Manual*. McGraw Hill Publishing Company, New York, 1999.
- Littlewood, Michael. *Landscape Detailing, Enclosures, Third Addition*. Elsevier Architectural Press, Oxford, 1984.
- Littlewood, Michael. *Landscape Detailing, Water, Third Addition*. Elsevier Architectural Press, Amsterdam, 2001.
- Littlewood, Michael. *Landscape Detailing, Water, Third Addition*. Elsevier Architectural Press, Amsterdam, 2001.
- Sauter, David. *Landscape Construction, Second Edition*. Thomson, Delmar Learning. Australia, 2005.

Stormwater / Grading / Drainage

- *Site Engineering for Landscape Architects*, 5th edition: Strom, Steven; Nathan, Kurt; and Woland, Jake.
- City of Seattle, Department of Construction and Land Use, *Stormwater, Grading, and Drainage Control*. 2000. Available from the City's website.
- Horner, Richard et al. *Fundamentals of urban runoff management: technical and institutional issues*. Terrene Institute, Washington, DC 1994
- 2012 Low-Impact Development Technical Guidance Manual for Puget Sound.
http://www.psp.wa.gov/LID_manual.php
- Washington State Department of Ecology *Stormwater Management Manual for Western Washington*, amended December 2014
<http://www.ecy.wa.gov/programs/wq/stormwater/manual.html>

Plants / Soils

- *Plants of the Pacific Northwest Coast : Washington, Oregon, British Columbia & Alaska / compiled and edited by Jim Pojar and Andy MacKinnon ; written by Paul Alaback ... [et al.]*
- Charles Anderson and Steve Ray, *A Manual for Native Plant Communities for Urban Areas of the Pacific Northwest*. (also available as pdf online -
http://www.wnps.org/landscaping/herbarium/native_alliance_urban_complete.pdf)
- King County Native Plant Guild - <http://green.kingcounty.gov/gonative>

- US Department of Agriculture Plants Database (includes species specific native plants maps) <http://plants.usda.gov/java/>
- Missouri Botanical Garden Plant Finder (includes succinct plant growth + maintenance information) <http://www.missouribotanicalgarden.org/plantfinder/plantfindersearch.aspx>
- Dave's Garden Plant Files (includes user ratings and photos) <http://davesgarden.com/guides/pf/>
- *Sunset Western Garden Book*
- <http://www.soilsforsalmon.org> Western Washington Stormwater Manual:

Materials

- [*Materials for Sustainable Sites: A Complete Guide to the Evaluation, Selection, and Use of Sustainable Construction Materials*](#) by [Meg Calkins](#) (Oct 6, 2008)
- [*Constructing Landscape: Materials, Techniques, Structural Components*](#) by Astrid Zimmermann (Dec 19, 2008)
- [*Sustainable Landscape Construction: A Guide to Green Building Outdoors, Second Edition*](#) by [J. William Thompson](#) and Kim Sorvig (Nov 13, 2007)
- *Land Forum*, SpaceMaker Press, various issues on different materials – Stone, Wood, Water, etc
- Brownell, Blaine. *Transmaterial 1, 2 and 3*. Princeton Architectural Press. Princeton, 2008.
- *Wood in the Landscape: A Practical Guide to Specification and Design* –Winterbottom, Daniel, 2000

General

- DPD Client Assistance Memos - [http://www.seattle.gov/DPD/Publications/Client_Assistance_Memos_\(CAMs\)/default.asp](http://www.seattle.gov/DPD/Publications/Client_Assistance_Memos_(CAMs)/default.asp)

Solo server space and Google Drive

Class Server, Solo:

We have a server set up for the course where you will store and access your working CAD files:

[\\solo.be.uw.edu](http://solo.be.uw.edu)\<larch433a>

When you log into the server with this information, you will see a networked drive that is accessible to everyone in this course and no others. **If using a lab computer, log out when done.**

This account will be disabled 2 weeks into next quarter and deleted the last day next of the next quarter.

We do not automatically keep any archives of these files. If you need files archived off this account please download them before then.

Access from Windows:

Map a drive (start menu, right-click "This PC", select Map Network Drive") to:

[\\solo.be.uw.edu](http://solo.be.uw.edu)\<larch433a>

Username: NETID\<your UWNetID>

Password: your UW NetID password

Access from Mac OSX:

From the Finder, Use the menu item /Go/Connect to Server/

<Enter>

smb://solo.be.uw.edu

Username/Password: your UW NetID username and password

Select your course share, and the volume will be mounted on your desktop.

Google Drive:

We encourage working on the server as much as possible, as complex, linked file structures being regularly updated by multiple users operate best there. Google Drive can serve as a backup if you must work away from the server, but it does have limitations (linked files aren't as easy to work with, you may end up repeating work if you need to re-link often). If you do work in Google Drive, 'check out' a file and replace it on the server, making sure your team knows it's being updated offline from the server, and when it's been updated.

Students can use their individual and/or UW Google Drives to share files between their groups. Your UW Google Drive can be accessed by going to <https://www.google.com/drive/> and signing in using your Netid, which will then redirect you to the UW server to sign in with your netid and password.

You can sync your Google Drive to your personal desktop/laptop by clicking on "Install Drive to Your Computer" on the left hand side menu of your personal Google Drive. This will allow you to save your files to your computer and automatically be backed up on the Google Drive. Note: The more files you have, the slower the drive will sync.