

LAA 3420

## Landscape Construction I

UF Department of Landscape Architecture  
Fall 2023

### SYLLABUS

#### I. General Information

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CLASS MEETINGS: 100% In-Person  
Mondays Periods 2-5 (8:30 AM – 12:35 PM)  
Wednesdays, Periods 2-6 (8:30 AM – 1:40 PM)

LOCATION: Architecture 322

CREDITS: 5 Credits

INSTRUCTOR: Yi Luo, PhD, PLA, ASLA  
ARC 432  
Mondays, 12:35-2:35 or by appointment  
[yi.luo@ufl.edu](mailto:yi.luo@ufl.edu)

Haoting Hong, MLA student (TA)  
ARC 1<sup>st</sup> Floor Student Lounge  
Thursdays, 12:35-2:35 PM  
[haoting.hong@ufl.edu](mailto:haoting.hong@ufl.edu)

#### COURSE DESCRIPTION

The first course in Landscape Construction is designed to integrate the theories and principles of landscape architectural design with the important technical skills necessary to document and construct the work. These skills include grading, drainage, stormwater management, and road/pathway geometry. These skills will be applied through hand drawings, study models, and CAD drawing production in the form of construction documents.

#### PREREQUISITE KNOWLEDGE AND SKILLS

Students are required to have completed LAA2376 and 2379: Design Communication 1 & 2. Students are expected to have a foundational knowledge of the design process, a basic understanding of AutoCAD, and the skills developed in the prerequisite courses to produce digital and hand-drawings.

#### REQUIRED READINGS AND WORKS

##### REQUIRED TEXT

Strom, Nathan, and Woland; *Site Engineering for Landscape Architects*, Sixth Edition is the primary text for this course. All required readings and works can be found online, course reserves, or in the UF Library (see annotated schedule).

## RECOMMENDED

- Echols, Stuart, and Eliza Pennypacker. *Artful Rainwater Design : Creative Ways to Manage Stormwater*. Island Press, 2015. A pdf of this book can be found on UF's library website. There will be required readings in this book.
- Ferguson, Bruce K.; *Introduction to Stormwater : Concept, Purpose, Design*; First Edition
- Aymer, Valerie; *Landscape Grading: A Study Guide for the LARE Grading Examination*
- Harris and Dines; *Timesaver Standards for Landscape Architecture*; Second Edition
- Hopper, Leonard J. *Landscape Architectural Graphic Standards*. John Wiley & Sons, 2007.

## Materials and Supplies

In addition to drafting supplies required of all studio courses, you will need the following materials:

- Engineer Scale Ruler
- A stand-alone, scientific calculator
- Fab Lab Membership: The course will utilize UF's Fab Lab for portions of the course. You will be required to purchase a Fab Lab membership. In addition, you will be required to provide the necessary materials to use the Fab Lab (e.g., chipboard) as well as any material/setup costs required by the Fab Lab (e.g., Laser Cutter). You will need to use laser cutter in Week 7, so be sure to complete the 1-hr orientation ahead of time.

## Software

- AutoCAD
- MS Office (Word, Excel and PowerPoint)
- Adobe Suite Products (Photoshop and In-Design)
- Adobe Acrobat Reader or other PDF reading software

## II. Student Learning Outcomes (SLOs)

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Each student in the LA program is expected to understand and apply the design process and continuously develop:

- a range of approaches (creative, cultural, and/or historic) to create spatial and temporal landscape compositions,
- multiple design alternatives before synthesizing ideas into a defensible plan and
- the ability to thoughtfully provide, receive, and respond to feedback and critique as part of iterative design decision making.

At the end of this course, students will be expected to have achieved the course learning objectives (CLOs) under the program SLO headings as follows:

<b>CONTENT</b>
<b>SLO 1</b> – Integrate concepts from the general body of knowledge of the profession of landscape architecture in design decision-making.
CLO 1 - Understand and integrate principles and practices of engineering, including grading drainage, water quality and management, and other landform processes to design landscapes that are accessible, safe, and ecologically sustainable.
CLO 2 - Understand the impacts associated with landscape engineering and development
CLO 3 - Understand soil science and geology and their impact on the landscape.

<b>SLO 2</b> – Apply core professional landscape architecture skills in design decision-making.
CLO 4 - Develop design proposals and plans that integrate engineering and construction techniques.
CLO 5 - Apply mathematical calculations to inform and substantiate design and construction performance
CLO 6 - Apply a range of approaches to develop landscape compositions.
<b>SLO 3</b> – Apply ethical understanding to design decision-making.
CLO 7 - Apply ethical and professional principles and considerations to their obligations to clients, communities, the public, and landscape environment.
CLO 8 - Explain the legal responsibilities and the role of landscape architecture in preserving and safeguarding human health, safety, and the public welfare through their professional practice.

<b>CRITICAL THINKING</b>
<b>SLO 4</b> – Combine and analyze information from multiple sources to support design decision-making.
CLO 9 - Analyze and evaluate ideas that are grounded in the evaluation of data and the natural, physical, and social sciences to make informed design decisions that address and balance aesthetic, environmental, and social issues and goals.
CLO 10 - Analyze issues to understand the interrelationship between ecosystems and climate and evaluate the effectiveness of design solutions to mitigate climate and ecosystem harm.
CLO 11 - Define and measure the impact of a design on its environmental goals based on measurable outcome.

<b>COMMUNICATION</b>
<b>SLO 5</b> – Produce professional visual, oral, and written communications.
CLO 12 – Prepare technical drawings and construction documents.
CLO 13 – Express ideas concretely through oral, visual, and written communication and thoughtfully provide, receive, and respond to feedback and critique as part of iterative design decision making.

### III. Graded Work

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#### DESCRIPTION OF GRADED WORK

##### Homework (20% of total grade)

Homework assignments shall be neatly finished. All calculations and units should be clearly written or typed on separate sheets and submit in the same PDF file with the homework sheet. The due date for each homework will be indicated on the course schedule when it is assigned. Typically, the due date is one week after it is issued, and the assignment will be collected in the beginning of the class. Submissions after 8:40 am will be considered late. ALL late homework will be penalized **10%** per day (including weekend days), and no homework will be accepted after the grading is completed, resulting in a grade of zero.

##### Studio Exercises (30% of total grade)

Studio exercises typically are graphical vignettes that require knowledge of landscape design and technical competence to create reasonable, practical, cost-effective and safe solutions. Therefore, exercises shall be professionally drafted for clear communication. Exercises of poor drafting quality will be subjected to severe point deduction. Incomplete works that do not provide final solutions will not be

accepted. Incomplete works will receive a grade of zero. Policy of late exercises follows what is described in Homework.

In-Class Assignment (7% of total grade)

Portions of the scheduled class meeting time will be used for in-class assignments. These assignments will be designed to illustrate concepts and problem-solving techniques. In-class assignments may be worked individually or in groups and will be due at the end of the class when assigned. In-class assignments may not be made up, and work not turned in will receive a grade of zero.

Observing the Landscape Exercise + West Coastal Field Trip (18% of total grade)

A good way to learn landscape architecture is by observing and measuring. You will keep a journal for the semester to document your analysis on landscape spaces and objects. Detailed requirements are described in the exercise. (Special requirements will be set up for the West Coastal Field Trip.)

Quizzes (5% of total grade)

Quizzes are a mean for us to ensure that the students are reading assigned materials. All quizzes will be closed-book, closed-notes and should require approximately 10 minutes of class time.

Exams (20% of total grade)

Two exams and one final will be given. Exams will focus on application of technical concepts. Exams will be limited to one class period. **The final exam is on Dec. 14 from 12:30 pm to 2:30 pm.**

Submission Requirements

Submission requirements include the basis for determining whether or not a project is complete enough to evaluate. Construction documents are legal documents that govern construction and generally become part of a legal agreement between a client and a building contractor. They are intended to convey precise information and are free of graphic embellishment. All solutions must be drafted, and lettered, and plotted from an appropriate CAD package, with all appropriate dimensions, elevations, contours, notes and labels typical of construction documents. Students must sign on all sheets to indicate original work by the students. Every sheet must have an appropriate title block, north arrow (if appropriate), scale designation (graphic and written), date, name and project/course title. Any exercise or project that fails to meet standards of completeness or neatness will receive a penalty of zero point. No work will be accepted for credit after the last class day.

If submitted work is evidently **incomplete**, the work will be returned instantly without grading. The subsequent submission will be considered late. Again, no work will be accepted after the graded assignments are returned, resulting in grade of zero.

The graded work assesses the course learning objectives as follows:

Assessment	LAA 3420 - Course Learning Objectives (CLOs)												
	SLO 1			SLO 2			SLO 3		SLO 4			SLO 5	
	1	2	3	4	5	6	7	8	9	10	11	12	13
Homework	X	X	X		X								
Exercises	X	X	X	X	X	X	X	X	X	X	X	X	X
In-class assignments	X	X		X	X	X					X	X	X
Observing the landscape	X	X			X		X	X	X		X	X	X
West coastal field trip	X	X	X		X		X	X	X	X	X	X	X

Quizzes	X	X	X										
Exams 1 & 2	X	X	X		X		X	X	X	X	X		
Final Exam	X	X	X	X	X	X	X	X	X	X	X	X	X

## GRADING SCALE

For information on how UF assigns grade points, visit: <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

A	93 – 100%		C	73 – 76%
A-	90 – 92%		C-	70 – 72%
B+	87 – 89%		D+	67 – 69%
B	83 – 86%		D	63 – 66%
B-	80 – 82%		D-	60 – 62%
C+	77 – 79%		E	<60

As per department policy, Landscape Architecture Majors must receive a C or better to move forward. Any grade lower than a **C** will require that the course be taken over again.

All student work may be retained and used by the Department of Landscape Architecture. Digital copies of student work for this course must be turned in at the completion of each assignment. Please follow the directions given by the instructor as to how they will be submitted (e.g., Canvas, CD, PDF, word file, etc.). If an assignment is required to be scanned, it must be scanned; photographs of assignments are not acceptable. If a multipage PDF is requested, do NOT submit each page as a separate PDF. It must be submitted as one file. Point deductions on the assignment may result from not following submittal directions or providing incorrect submittal or file formats.

A due date and time will be provided for every assignment, and an assignment is considered a day late if it is submitted after the specified date and time. The deadline is a hard deadline; no exceptions will be made for scanning, computer related issues, uploading, et cetera. Assignments are considered an additional day late every 24 hours from the due date.

Assignment submissions may be updated and re-uploaded to the Canvas site as needed prior to a submittal deadline. Once the deadline has passed for an assignment and a submission has been made, additional submittals are not guaranteed to be accepted. If the updated, late submittal is accepted, the entire submittal will be considered late and points will be deducted based on the date of the late submission. In addition, it is the student's responsibility to ensure that a submission is complete; missing items will not be given credit.

## IV. Annotated Weekly Schedule

Week	Topics, Homework, and Assignments
1	<p><b>Topic:</b> Course Introduction (W, 8/23)</p> <p><b>Summary:</b> This week we will review course syllabus, set up studio, and go over course policies. Students need to complete a 1-hr Fab Lab laser cutter training before Week 7.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ Site Engineering for Landscape Architects <ul style="list-style-type: none"> <li>• Ch1 – “Site Engineering Is Design” (CLO#1, 2, 3)</li> </ul> </li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <i>Assign:</i> <ul style="list-style-type: none"> <li>• Semester-long journal (aka observing the landscape exercise) (CLO#1, 2, 5, 7, 8, 9, 11, 12, 13) (<i>due: 9/13, 10/11, 11/27</i>)</li> </ul> </li> <li>○ <i>Due:</i> None</li> </ul>
2	<p><b>Topic:</b> Contours and forms (M, 8/28), Slope, and Interpolation (W, 8/30)</p> <p><b>Summary:</b> This week we will define what a contour is and the basic rules for contours and contour maps. We will review and apply the slope formula, and we will learn the process for translating spot grades (elevations) to a contour/topography map.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ <i>Site engineering for landscape architects</i> <ul style="list-style-type: none"> <li>• Ch 3 “Contours and form” (CLO#1, 2)</li> <li>• Ch 4 “Interpolation and slope” (CLO#1, 2)</li> </ul> </li> <li>○ PBS Art assignment video: <i>the case for land art</i> (CLO#1, 2)</li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <i>Assign:</i> <ul style="list-style-type: none"> <li>• In-class assignment 1- landforms and contours (CLO#1, 2) (<i>due 8/28</i>)</li> <li>• Exercise 1 – Contour interpolation (CLO#1, 2, 5, 12, 13) (<i>due 9/6</i>)</li> </ul> </li> <li>○ <i>Due:</i> <ul style="list-style-type: none"> <li>• In-class assignment 1 (<i>8/28 @12:35 pm</i>)</li> </ul> </li> </ul>
3	<p><b>Topic:</b> Field Survey (W, 9/6)</p> <p><b>Summary:</b> This week we will introduce the process of landscape surveying. Students will learn how to do it through lecture first, and then do a field survey on UF campus in teams.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ <i>Site Engineering for Landscape Architects</i> <ul style="list-style-type: none"> <li>• Ch5 “Grading of Simple Design Elements” (CLO# 1, 2, 3)</li> </ul> </li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <i>Assign:</i> In-class assignment 2 – Field survey (CLO#1, 2, 3, 4, 5, 12, 13)</li> <li>○ <i>Due:</i> <ul style="list-style-type: none"> <li>• Exercise 1 – Contour interpolation (<i>9/6 @ 8:40 am</i>)</li> <li>• In-class assignment 2 (<i>9/6 @ 1:40 pm</i>)</li> </ul> </li> </ul>
4	<p><b>Topic:</b> Slope formular application (M, 9/11); Site grading process (W, 9/13)</p> <p><b>Summary:</b> On Monday, we will introduce slope formula, its application, slope analysis, and slope guidelines for landscape practices. On Wednesday, we will cover the grading process and grading guidelines.</p> <p><b>Required Readings:</b></p>

	<ul style="list-style-type: none"> <li>○ Demo video – Grading simple slab (<i>due 9/13</i>)</li> <li>○ <i>Site Engineering for Landscape Architects</i> <ul style="list-style-type: none"> <li>• Ch2 “Grading constraints” (CLO#1, 2, 3)</li> <li>• Ch6 “Grading process” (CLO#1, 2, 3)</li> </ul> </li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <b>Assign:</b> <ul style="list-style-type: none"> <li>• In-class assignment 3 – Slope analysis (CLO#1, 2, 5) (<i>due 9/11</i>)</li> <li>• Exercise 2 – Planes in space (CLO#1, 2, 5) (<i>due 9/18</i>)</li> <li>• Homework 1 – Calculating slopes and grades (CLO#1, 2, 5) (<i>due 9/18</i>)</li> <li>• In-class assignment 4 – Drawing contours on site (CLO#1, 2, 3, 4, 5, 12, 13) (<i>due/13</i>)</li> <li>• Exercise 3 – Grading around slab (CLO#1, 2, 3, 5, 12, 13) (<i>due 9/20</i>)</li> </ul> </li> <li>○ <b>Due:</b> <ul style="list-style-type: none"> <li>• Journal 1 – should include 3 journals (<i>9/13 @ 8:40 am</i>)</li> <li>• In-class assignment 3 (<i>9/11 @12:35 pm</i>)</li> <li>• In-class assignment 4 (<i>9/13 @1:40 pm</i>)</li> </ul> </li> <li>○ <b>Quiz:</b> <ul style="list-style-type: none"> <li>• Quiz 1: Ch1, Ch3, Ch4 (<i>9/11@ 9:00 am</i>)</li> </ul> </li> </ul>
5	<p><b>Topic:</b> Grading around buildings, grading roads (M, 9/18); Grading simple residence (W, 9/20)</p> <p><b>Summary:</b> This week we will introduce the grading of roads and residence through lectures and demonstration videos. Students will also work on exercises to enhance the understanding.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ Demo video – Grading roads (<i>due 9/18</i>)</li> <li>○ Demo video – Grading simple residence (<i>due 9/20</i>)</li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <b>Assign:</b> <ul style="list-style-type: none"> <li>• Homework 2 – slope guidelines (CLO#1, 2, 7, 8, 9) (<i>due 9/25</i>)</li> <li>• Exercise 4 – Grading roads (CLO#1, 2, 3, 5, 12, 13) (<i>due 9/25</i>)</li> <li>• Exercise 5 – Grading residence (CLO#1, 2, 3, 4, 5, 6, 12, 13) (<i>due 9/27</i>)</li> </ul> </li> <li>○ <b>Due:</b> <ul style="list-style-type: none"> <li>• Homework 1 – Calculating slopes and grades (<i>9/18 @ 8:40 am</i>)</li> <li>• Exercise 2 – Planes in space (<i>9/18 @ 8:40 am</i>)</li> <li>• Exercise 3 – Grading around slab (<i>9/20 @ 8:40 am</i>)</li> </ul> </li> </ul>
6	<p><b>Topic:</b> Earthwork, cut and fill (M, 9/25), Workday (W, 9/27)</p> <p><b>Summary:</b> This week we will introduce the calculation of cult-and-fill volume, use design and grading. Then use Wednesday as a workday to complete the ongoing exercises and study for Exam 1.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ <i>Site Engineering for Landscape Architects</i> <ul style="list-style-type: none"> <li>• Ch8 “Earthwork” (CLO#1, 2, 3)</li> </ul> </li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <b>Assign:</b></li> </ul>

	<ul style="list-style-type: none"> <li>• Exercise 6 – Modify the design/grading of Ex 5 to balance cut and fill (CLO#1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13) (due 10/4)</li> <li>○ <b>Due:</b> <ul style="list-style-type: none"> <li>• Homework 2 – Slope guidelines (9/25 @ 8:40 am)</li> <li>• Exercise 4 – Grading roads (9/25 @ 8:40 am)</li> <li>• Exercise 5 – Grading residence (9/27 @ 8:40 am)</li> </ul> </li> <li><b>Quiz:</b> <ul style="list-style-type: none"> <li>• Quiz 2: Ch2, Ch5, Ch6, Ch8 (9/27@ 9:00 am)</li> </ul> </li> </ul>
7	<p><b>Topic:</b> Exam (M, 10/2); Introduction to stormwater management (W, 10/4)</p> <p><b>Summary:</b> This week we will first take an exam that includes everything taught thus far and start the second part of the semester focusing on stormwater management.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ <i>Site Engineering for Landscape Architects</i> <ul style="list-style-type: none"> <li>• Ch9 “Stormwater management” (CLO#1, 2, 3)</li> </ul> </li> <li>○ Demo video – Grading a parking lot (due 10/4)</li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <b>Assign:</b> <ul style="list-style-type: none"> <li>• Exercise 7 – Grading a parking lot (CLO#1, 2, 3, 4, 5, 6, 7, 8, 12, 13) (due 10/11)</li> <li>• Exercise 8 – Create two models using laser cutter for Exercises 5 and 6, demonstrating cut and fill balance (CLO#1, 2, 4, 5, 6, 11, 13) (due 10/16)</li> </ul> </li> <li>○ <b>Due:</b> <ul style="list-style-type: none"> <li>• Exercise 6 – Modified the design/grading of EX 5 to balance cut and fill (10/4 @ 8:40 am)</li> </ul> </li> <li>○ <b>Exam:</b> <ul style="list-style-type: none"> <li>• Exam 1 (10/2 8:30 – 11:00 am)</li> </ul> </li> </ul>
8	<p><b>Topic:</b> Open channel flow, Manning’s equation, hydraulic radius (M, 10/9); Storm properties, design storm, IDF, time of concentration (W, 10/11)</p> <p><b>Summary:</b> This week we will continue to study rainfall and runoff. We will learn how to calculate flows using the Manning’s equation, estimate time of concentration in a watershed, and do relevant homework. In addition, we will continue to practice grading.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ <i>Site Engineering for Landscape Architects</i> <ul style="list-style-type: none"> <li>• Ch10 “Storm water management system components” (CLO#1, 2, 3)</li> <li>• Ch 13 “Natural Resources Conservation Service Methods of Estimating Runoff Rates, Volumes, and Required Detention” (CLO#1, 2, 3)</li> </ul> </li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <b>Assign:</b> <ul style="list-style-type: none"> <li>• Homework 4 – Basic hydraulics and open channels (CLO#1, 2, 3, 5) (due 10/16)</li> <li>• Homework 5 – Time of concentration (CLO#1, 2, 3, 5) (due 10/18)</li> <li>• Exercise 9 – Grading a parking lot with a large building (CLO#1, 2, 3, 4, 5, 6, 7, 8, 12, 13) (due 10/18)</li> </ul> </li> <li>○ <b>Due:</b></li> </ul>



	<ul style="list-style-type: none"> <li>Journal 2 – should include 4 additional journals (total 7) (10/11 @ 8:40 am)</li> <li>Exercise 7 – Grading a parking lot (10/11 @ 8:40 am)</li> </ul>
9	<p><b>Topic:</b> Rational method (M, 10/16); low impact development (W, 10/18)</p> <p><b>Summary:</b> This week we will continue to introduce hydrological science, and students will learn how to estimate the rates and volumes of runoff that must be handled, which informs the design and size of swales, pipes, and ponds.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>Site Engineering for Landscape Architects <ul style="list-style-type: none"> <li>Ch 12 “Determining rates and volumes of storm runoff: the Rational and Modified Rational Method” (CLO#1, 2, 3)</li> </ul> </li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li><b>Assign:</b> <ul style="list-style-type: none"> <li>Homework 6 – Rational method (CLO#1, 2, 3, 5) (due 10/30)</li> <li>Field trip assignment (CLO#1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 13) (due 11/1)</li> </ul> </li> <li><b>Due:</b> <ul style="list-style-type: none"> <li>Homework 4 – Basic hydraulics and open channels (due 10/16 @ 8:40 am)</li> <li>Homework 5 – Time of concentration (due 10/18 @ 8:40 am)</li> <li>Exercise 9 – Grading a parking lot with a large building (due 10/18 @ 8:40 am)</li> </ul> </li> </ul> <p><b>Quiz:</b></p> <ul style="list-style-type: none"> <li>Quiz 3: Ch9, Ch10, Ch13 (10/18 @ 9:00 am)</li> </ul>
10	West Coastal Field Trip
11	<p><b>Topic:</b> Introduction of the final project (M, 10/30); Modified rational method (W, 11/1)</p> <p><b>Summary:</b> This week we will introduce that final project of this course and learn modified rational method. Students will also wrap their field trip findings.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>None.</li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li><b>Assign:</b> <ul style="list-style-type: none"> <li>Exercise 10 – Final Project (CLO# ALL) (multiple due dates, check details below)</li> </ul> </li> <li><b>Due:</b> <ul style="list-style-type: none"> <li>Homework 6 – Rational method (due 10/30 @ 8:40 am)</li> <li>Field trip assignment (due 11/1 @ 8:40 am)</li> </ul> </li> </ul>
12	<p><b>Topic:</b> Runoff estimate by curve number and TR-55 (M, 11/6); Grading and soils (W, 11/8)</p> <p><b>Summary:</b> This week we will introduce using curve number and TR-55 to estimate rainfall runoff. In addition, we will learn soil as construction material in site planning, its properties, and implications for site construction.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>Site Engineering for Landscape Architects <ul style="list-style-type: none"> <li>Ch 7 “Soils in Construction” (CLO#1, 2, 3)</li> </ul> </li> </ul>

	<p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <i>Assign:</i> <ul style="list-style-type: none"> <li>• None.</li> </ul> </li> <li>○ <i>Due:</i> <ul style="list-style-type: none"> <li>• Exercise 10.1 (<i>due 10/30 @ end of class</i>)</li> </ul> </li> </ul>
13	<p><b>Topic:</b> Exam 2  <b>Summary:</b> This week we will focus on wrapping up the science of hydrology. On Monday, we will do Q&amp;A for Exam 2, which covers everything after Exam 1, and on Wednesday we will take Exam 2. In addition, Exercises 10.2 is due.  <b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ <i>Site Engineering for Landscape Architects</i> <ul style="list-style-type: none"> <li>• Ch 12 “Determining rates and volumes of storm runoff: the Rational and Modified Rational Method” (CLO#1, 2, 3)</li> </ul> </li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <i>Assign:</i> <ul style="list-style-type: none"> <li>• None.</li> </ul> </li> <li>○ <i>Due:</i> <ul style="list-style-type: none"> <li>• Exercise 10.2 (<i>due 10/30 @ 11:00 am</i>)</li> </ul> </li> <li>○ <i>Exam:</i> <ul style="list-style-type: none"> <li>• Exam 2 (<i>11/15 8:30 – 11:00 am</i>)</li> </ul> </li> </ul>
14	<p><b>Topic:</b> Working day and Thanksgiving!  <b>Summary:</b> This week students will continue to work on Exercise 10, the final project.  <b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>• <i>None.</i></li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <i>Assign:</i> <ul style="list-style-type: none"> <li>• None.</li> </ul> </li> <li>○ <i>Due:</i> <ul style="list-style-type: none"> <li>• Exercise 10.3 (<i>due 10/30 @ 8:40 am</i>)</li> </ul> </li> </ul>
15	<p><b>Topic:</b> Transportation design, horizontal and vertical alignment  <b>Summary:</b> This week we will introduce the basic engineering necessary to layout roads and drives in the landscape.  <b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ <i>Site Engineering for Landscape Architects</i> <ul style="list-style-type: none"> <li>• Ch 16 “Horizontal Road Alignment” (CLO#1, 2, 3)</li> <li>• Ch 17 “Vertical Road Alignment” (CLO#1, 2, 3)</li> </ul> </li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <i>Assign:</i> <ul style="list-style-type: none"> <li>• None.</li> </ul> </li> <li>○ <i>Due:</i> <ul style="list-style-type: none"> <li>• Journal 3 – should include 5 additional journals (total 12) (<i>11/27 @ 8:40 am</i>)</li> <li>• Exercise 10.4 (<i>due 11/29 @ 8:40 am</i>)</li> </ul> </li> </ul>

<b>16</b>	<p><b>Topic:</b> Final project report and final exam preparation</p> <p><b>Summary:</b> This week students will work on preparing the final project report and study for the final exam.</p> <p><b>Required Readings:</b></p> <ul style="list-style-type: none"> <li>○ None.</li> </ul> <p><b>Work:</b></p> <ul style="list-style-type: none"> <li>○ <i>Assign:</i> <ul style="list-style-type: none"> <li>• None.</li> </ul> </li> <li>○ <i>Due:</i> <ul style="list-style-type: none"> <li>• Exercise 10.5 (<i>due 12/6 @ end of class</i>)</li> </ul> </li> </ul> <p><b>Quiz:</b></p> <ul style="list-style-type: none"> <li>• Quiz 4: Ch12, Ch7, Ch16, Ch17 (<i>12/4 @ 9:00 am</i>)</li> </ul>
	<b>12/14 (TR) 12:30 – 2:30 pm Final Exam (CLO# ALL)</b>

## VI. Required Policies

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### ATTENDANCE POLICY

Attendance is mandatory. Students are expected to arrive on time. Acceptable reasons for excused absences are as follows:

- Illness
- Serious family emergency
- Special curricular requirements (e.g., judging trips, field trips, professional conferences)
- Military obligation
- Severe weather conditions
- Religious holidays
- Participation in official university activities such as music performances, athletic competition or debate.
- Court-imposed legal obligations (e.g., jury duty or subpoena)

If necessary, students shall be permitted a reasonable amount of time to make up material or activities covered in their excused absence; however, absences do not affect project deadline dates unless prior arrangements have been made.

Studio work time and desk critiques are essential to the learning experience; therefore, attendance is expected for the entire class time. During the studio (critique) portion of the course, it is expected that all students will be in attendance for the entire class and working on LAA3420 assignments. Arriving late to class, leaving during class for extended durations, or leaving early from class may be considered being absent from class.

The instructor will not provide the student notifications regarding absences and tardiness. You may email the instructor should you have any questions regarding your attendance. Please schedule an office meeting for any discussions regarding attendance, tardiness, and late assignments. Do not discuss these issues with the instructor during studio time.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

## **STUDENTS REQUIRING ACCOMMODATION**

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

## **UF EVALUATIONS PROCESS**

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

## **UNIVERSITY HONESTY POLICY**

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

## **COUNSELING AND WELLNESS CENTER**

Contact information for the Counseling and Wellness Center: <http://www.counseling.ufl.edu/>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

## **COURSE MATERIALS AND IN-CLASS RECORDINGS**

The digital course materials provided on Canvas (e.g., lectures, assignments, quizzes, et cetera) are provided for personal study and are not intended for distribution by electronic or other means. Further distribution or posting on other websites is not permitted.

Our class sessions may be audio visually recorded. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to

consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who participate orally are agreeing to have their voices recorded. Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

**\* The instructors reserve the right to adjust the syllabus and schedule as needed.**