

SYLLABUS

Class meeting times:	<i>M W 7th Period – 10th Period (1:55 – 6:00 PM)</i>
Studio/Lecture:	322 ARC
Credits:	5
Office:	Dan Manley, RLA, LEED-AP 430 ARC 352-392-6098 dpsmanley@ufl.edu
Office hours:	<i>W 12:40-1:40 PM or by appointment</i>
Canvas e-learning Website:	http://lss.at.ufl.edu

Course Overview

The purpose of this course is to explore the relationship between design and construction and introduce construction concepts in landscape architecture focused on roadway alignment, hardscape layout, materials, detail development, and irrigation.

Course Objectives

The objectives of this course are to gain a workable understanding of roadway alignment, hardscape design and construction, and irrigation; apply the knowledge gained to the design decision-making process; and to achieve the student learning outcomes listed below.

Prerequisite Knowledge and Skills

Students are required to have completed LAA3420: Landscape Construction 1. Students are expected to have a foundational knowledge of the design process, a working knowledge of AutoCAD, the ability to develop digital and hand graphics, and the skills developed in the prerequisite course.

Students Learning Outcomes

Content Knowledge

- *Recall basic terminology and principles of horizontal and vertical roadway alignment.*
- *Identify common hardscape materials and describe their cross sections.*
- *Identify the proper structural system and detailing of vertical elements such as freestanding and retaining walls and non-habitable structures utilizing masonry, brick, and wood.*
- *Describe the principles of proper irrigation design.*
- *Define basic requirements of estimating and takeoffs.*
- *Recognize health, safety and welfare issues related to roadway alignment, hardscape design and detailing, and irrigation design.*

Critical Thinking

- *Synthesize information from multiple sources in design decision-making.*
- *Develop proper roadway geometrics for unique sites by applying principles of roadway alignment.*
- *Evaluate and select appropriate hardscape materials for site specific design.*
- *Apply principles of irrigation to unique sites in the development of irrigation plans.*

Communication

- Illustrate basic layout and dimensioning principles in construction plans and details
- Produce visual, oral, and written communications.
- Execute basic AutoCAD efficiently and identify proper drawing setup for technical drawings

Teaching Philosophy

The lecture portion of the course will be taught in a process-oriented manner that builds upon topics presented each week. The studio portion of class will provide the student opportunities to apply the concepts presented in the lectures. The studio will reflect the learning style found in professional working studios; criticism of work will be given in the form of desk critiques and redlines. Redlines are instructor markups of student submitted drawings that provide additional opportunities to learn, improve, and hone the craft. As the learning process is largely-based on feedback, the student's self-motivation and preparedness for class are critical to the success of the student.

Instructional Methods

Course instruction will be a combination of lectures, readings, field visits, and individual instruction/desk critiques of student work.

COURSE POLICIES

Class Attendance and Participation

- The studio meets twice a week on Monday and Wednesday from periods 7-10 (1:55 pm-6:00 pm). **Participation in class is critical.** Attendance is mandatory and students are expected to arrive on time. Two unexcused absences are permitted. Each additional absence will lower the student's semester grade by 2%. Students are required to contact, via e-mail or in person, the instructor as soon as an absence is expected and prior to the class being missed. Notifying the instructor of an absence does not guarantee that the absence will be considered excused.
- Studio work time and desk critiques are essential to the learning experience; therefore, attendance is expected for the entire class time. During the studio (desk instruction) portion of the course, it is expected that all students will be in attendance for the entire class and working on LAA3420 assignments. Arriving more than twenty minutes after class has started will be considered absent for the class. Attending lecture, but not attending the studio portion will be considered an absence. Leaving during class for extended durations, leaving early from class, or working on assignments from other courses will be considered non-participatory. In addition, work must be done in the studio and computers must be brought to class; instruction will not be given outside the studio during class times (e.g., in the computer lab). Working outside the studio during the class periods will be considered non-participatory. Being non-participatory will be considered the same as being absent.
- 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>.

Class Demeanor

- Studios are public places. The studio doors are locked, however, it is also suggested that you store any valuables under lock or bring them home with you.
- *Cell phones must be turned off during class.*

- Working on your computer during lecture is not permitted.
- Please respect other students work. Due to tight quarters, it is especially important to keep spaces and common spaces clean. Also be mindful and respectful of playing music and other audio.
- Many classes will include “desk crits” at each student’s desk. It is expected that your desk be orderly and you have a scale and a roll of trace available when the instructor arrives at your desk.

Submission of Student Work

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. No grades will be computed into the final course grade until digital submissions have been turned in as requested. 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. Point deductions on the assignment may result from not following submittal directions or providing incorrect submittal or file formats.

All files must be named as follows:

(Course#Name)(Project+Description)(Student-Lastname).(pdf)

Example:

3420LACost1GradPlanSmith.pdf

4ch 8ch 8ch 6ch (ch = letter characters)

- Use CAPS for Separation
- Save images in PDF format at a maximum 200 resolution
- *No spaces, hyphens, or underscoring*

Texts, Software and Other Resources

The following texts are required:

- Strom, Nathan, and Woland; *Site Engineering for Landscape Architects*, Sixth Edition
- Rainbird Irrigation Design Manual – Found Online
(<http://www.rainbird.com/documents/turf/IrrigationDesignManual.pdf>)

The following texts are recommended:

- Harris and Dines; *Timesaver Standards for Landscape Architecture*; Second Edition

The following software is required:

- AutoCAD (2015 or higher)
- LandF/X
- MS Office (Word, Excel and Powerpoint)
- Adobe Acrobat

All students are required to have a laptop computer that meets the Department’s computer requirement. In addition, a stand-alone, scientific calculator is required for this class. The calculator function found on smartphones, computers, or tablets will not be acceptable and will not be permitted during quizzes or exams.

Communication

Email is the primary communication method to contact the instructor outside of class time and office hours. Please use the email address listed above should you have any questions, comments, or concerns.

UF POLICIES

Student Accommodations

Support services for students with disabilities are coordinated by the Disability Resource Center in the Dean of Students Office (352-392-8565, www.dso.ufl.edu/drc/). To obtain individual support services, each student must meet with a support coordinator in the Disability Resources Program who will work with the individual student and the instructor to determine appropriate support strategies. There is no requirement for a student to self-identify his/her disability; however, students requesting classroom accommodations must register with the Dean of Students Office. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Appropriate documentation regarding the student's disability is necessary to obtain any reasonable accommodation or support service. Students with disabilities should follow this procedure as early as possible in the semester.

Academic Honesty

The University requires all members of its community to be honest in all endeavors. When students enroll at UF they commit themselves to honesty and integrity. The faculty of Landscape Architecture fully expects you to adhere to the academic honesty guidelines you signed when you were admitted to UF. In completing the registration form at the University of Florida, every student has signed the following statement:

"I understand the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University."

Furthermore, on work submitted for credit by all UF students, the following pledge is either required or implied:

"On my honor, I have neither given nor received unauthorized aid in doing this assignment."

It is to be assumed that all work will be completed independently unless the assignment is defined as a group project by the instructor. This does not mean that students cannot help one another in learning material, but all work that is turned in must be independent work of that individual.

Misrepresentation or plagiarism, such as claiming another's work to be one's own, refers to graphic, images, and design work as well as written work. Submitting work from one course to fulfill the requirements of another (unless expressly allowed by the instructor) is also misrepresentation.

The University Honor Code and the Department of Landscape Architecture Academic Honesty Policy are to be followed to the letter. Any students found to have cheated, plagiarized, or otherwise violated the Honor Code in any assignment will be punished according to the severity of the act and may be referred to the Honor Court. It is each student's responsibility to report any infraction, and it is expected that each faculty will report all infractions as well.

For more information, see <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/> and the Department of Landscape Architecture Academic Honesty Policy.

Netiquette: Communication Courtesy

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. For a description of what is expected and what will occur as a result of improper behavior see the University's [Netiquette Guide for Online Courses](#).

Religious Holidays

The university calendar does not include observance of any religious holidays. The Florida Board of Governors and state law govern university policy regarding observance of religious holidays. Students shall be excused from class or other scheduled academic activity to observe a religious holy day of their faith with prior notification to the instructor. Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence. Students shall not be penalized due to absence from class or other scheduled academic activity because of religious observances.

University's Syllabus Policy

The University's complete Syllabus Policy can be found at:

<http://syllabus.ufl.edu/Data/Sites/18/media/policies/syllabus-policy-current.pdf>

GETTING HELP

For issues with technical difficulties for E-learning in Canvas, please contact the UF Help Desk at:

- Learning-support@ufl.edu
- (352) 392-HELP - select option 2
- <https://lss.at.ufl.edu/help.shtml>

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from LSS when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

Counseling Resources

Students experiencing crisis or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. Contact information for the Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

GRADING POLICIES

Course grades will be based on problem solving skills as they relate to the accomplishment of the objectives. Grading will adhere to the University of Florida Grade Policy:

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Numeric Grade	100 -93	92- 90	89- 87	86- 83	82- 80	79- 77	76- 73	72- 70	69- 67	66- 63	62- 60	59- 0
Quality Points	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	0.67	0.0

For greater detail, see the Registrar's Grade Policy regulations at

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

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.

Students will be evaluated based on larger assignments, smaller exercises, quizzes and exams. Quizzes may be unannounced. Exams will be announced and scheduled. Unless specifically stated otherwise, all assignments and exercises (including presentations), quizzes, or exams given as part of this class will be graded, assigned a point value, and included in the determination of the student's final grade. Course grades will be based on the following approximate points and weighting (subject to change):

Description	Points	% of Total Grade
Assignment 1: Roadway Alignment	30	10%
Assignment 2: Layout	15	5%
Assignment 3: Pavements	45	15%
Assignment 4: Photo Journal	30	10%
Assignment 5: Walls	45	15%
Assignment 6: Wood Construction	30	10%
Assignment 7: Irrigation	45	15%
Total Assignment Points	240	75%
Exam 1 – Roadway and Layout	30	10%
Exam 2 – Irrigation, Estimating, & Specifications	30	10%
Total Exam Points	60	20%
TOTAL CLASS POINTS	300	

Assignments are expected to be submitted by the specified due date. If no prior arrangement is made with the instructor for a late submittal, a 5% reduction on the assignment grade will be taken for every day it is late. 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. An additional 5% reduction will be assessed every 24 hours from the due date. Assignments that are more than ten days late will be accepted; however, it will be graded based on a maximum of 35% of the total points for the assignment.

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, no additional submittals for that assignment will be accepted. In addition, it is the student's responsibility to ensure that a submission is complete. Once a submission is made and the assignment deadline has passed, credit will not be given for missing items.

Evaluation of Faculty

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

Course Schedule (subject to change)

Week	Dates	Content Topic(s)	Reading	Assignments
1	1/6	Course Introduction and Roadway Alignment Introduction, Horizontal Roadway Alignment	<i>Site Engineering for Landscape Architects</i> , Ch. 16	<i>Assignment 1</i> : Roadway Alignment (assigned 1/6)
2	1/11 1/13	Roadway Alignment and Standards Vertical Roadway Alignment, Geometric Design, Sight Distance, Lateral Offset	<i>Site Engineering for Landscape Architects</i> , Ch. 17	
3	1/18 1/20	Dimensioning and Layout Dimensioning Styles, Formatting, and Guidelines (No Class: 1/18)	<i>Site Engineering for Landscape Architects</i> , Ch. 15	<i>Assignment 1</i> : Roadway Alignment (due 1/18) <i>Assignment 2</i> : Layout (assigned 1/18)
4	1/25 1/27	Dimensioning and Layout Layout Systems, Bearings/Azimuths, Boundary Descriptions		<i>Assignment 2</i> : Layout (due 2/1)
5	2/1 2/3	Pavements Pavement Types, Selection Factors, Section Components (Exam 1 - Dimensioning and Layout: 2/3)	<u>Tech Spec 2: Construction of Interlocking Concrete Pavements</u> <u>(http://www.icpi.org/node/1025)</u>	<i>Assignment 3</i> : Pavements (assigned 2/1) <i>Assignment 4</i> : Photo Journal (assigned 2/1)
6	2/8 2/10	Pavements Unit Paving	<u>BIA Technical Notes on Brick Construction No. 14 - Paving Systems Using Clay Pavers</u> <u>(http://www.gobrick.com/Portals/25/docs/Technical%20Notes/TN14.pdf)</u>	
7	2/15 2/17	Pavements Concrete, and Asphalt		
8	2/22 2/24	Vertical Construction Walls Overview, CMU and Brick Construction		<i>Assignment 3</i> : Pavements (due 2/22) <i>Assignment 5</i> : Walls (assigned 2/22)
9	2/29 3/2	Spring Break		
10	3/7 3/9	Vertical Construction Structural Wall Considerations, Retaining Walls		
11	3/14 3/16	Vertical Construction Wood and Metal, Lumber, Framing, Connections		<i>Assignment 5</i> : Walls (due 3/14) <i>Assignment 6</i> : Wood Construction (assigned 3/14)
12	3/21 3/23	Vertical Construction Wood Construction, Additional Materials		
13	3/28 3/30	Irrigation Overview, Hydraulic Basics, Irrigation Requirements, Sources, and Delivery Types	<u>Rainbird Landscape Irrigation Design Manual: Parts 1-5</u> <u>(http://www.rainbird.com/documents/turf/IrrigationDesignManual.pdf)</u>	<i>Assignment 6</i> : Wood Construction (due 3/28) <i>Assignment 7</i> : Irrigation (assigned 3/28)
14	4/4 4/6	Irrigation Layout and Zoning, System Sizing and Verification	<u>Rainbird Landscape Irrigation Design Manual: Parts 6-9</u> <u>(http://www.rainbird.com/documents/turf/IrrigationDesignManual.pdf)</u>	
15	4/11 4/13	Irrigation and Estimating Takeoffs		<i>Assignment 7</i> : Irrigation (due 4/13)
16	4/18 4/20	Specifications (Exam 2 - Irrigation, Estimating, and Specifications: 4/20)		<i>Assignment 4</i> : Photo Journal (due 4/20)