

Syllabus
Advanced Residential Landscape Design
LDE4404C Spring 2016

Instructor:
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Office Hours: Friday- 2-4pm

Course Description

LDE4404C Credits 3

This course emphasizes sustainable landscape design concepts and practices to create regenerative and resilient residential landscapes that demonstrate advanced design skills and knowledge.

Course Pre-requisites

LDE 3410C Residential Landscape Design
Or
LAA 2360C Principles of Landscape Architecture

Course Structure

Combined lecture and studio consisting of combinations of the following: lectures (30 minutes to 1 hour), Desk critiques/Studio work (1 to 2 hours) and Site visits/Activities (1 to 2 hours).

Lecture- PSF 0004, Tuesday and Thursday, Periods 9-10 (4:05pm to 6:00pm)

Lectures vary from 30 to 50-minutes

Studio- PSF 0004, Tuesday and Thursday, Periods 9-10 (4:05pm to 6:00pm)

Desk critiques and/or site visits vary from 65 minutes to 2 hours

Each two hour class period will typically consist of one of the following: lecture and desk crits, a class activity and desk crits, or a site visit on or off campus that includes an activity and discussion. Students will be expected to walk, drive, or ride their bike to various sites from PSF 0004. Some classes will meet at a designated site on the main campus. Students will also be expected to be present for a site visit at a designated private residence for one of the design projects.

Course Format

Five teaching modules include:

- **Sustainable landscape concepts-** resource efficient plants, planting designs, energy conservation, re-use and re-purpose of materials.
- **Water management and use-** rain water harvesting, topography, irrigation.
- **Sustainable building materials, techniques, and systems-** lighting, hardscape, wood, re-use.
- **Sustainable landscape certifications-** LEED, Sustainable Sites Initiative.
- **Landscape Profession-** Landscape Designer profession and liability limitations, cost estimates, material specification, contract writing, and graphics.

Goals and Objectives

Course Goal: To design and draw technically advanced well designed, residential landscapes that demonstrate the integration and application of concepts of resource efficient and sustainable landscapes.

Course Objectives and Learning Outcomes: by the end of the semester students should be able to:

- Use the design process (knowledge, comprehension, analysis, synthesis, application, and evaluation) to create technically advanced well designed, residential landscapes.
- List and describe the concepts of resource-efficient landscape design and demonstrate an understanding of resource efficient concepts through application in the context of a residential design
- Describe the characteristics of sustainable, renewable building materials and demonstrate an understanding of their impact on sustainability through suitable integration of materials in the hardscape plan of a residential landscape design.
- Identify and develop a list of resource efficient plants and demonstrate knowledge and understanding of the concept of resource efficiency through application of the concept to a planting plan of a residential landscape.
- Understand the concepts of topography (a swale, berm, and basin) and water movement and demonstrate an understanding of the concepts of managing stormwater with conceptual diagrams that illustrate the outcome.
- Describe the components and layout for water conserving irrigation plans and demonstrate integration of water conserving concepts by describing an appropriate irrigation and stormwater management plan for residential design.
- Describe the components of an energy efficient outdoor lighting plan and demonstrate understanding through application to a residential design.
- Identify and describe green certifications and programs for landscape design. Demonstrate understanding through application of part or all of a program to a residential design.
- Develop simple cost estimates and material specifications for a residential landscape design.
- Understand the difference between LA licensure/liability and LD liability and demonstrate an understanding by writing a contract for services for a residential landscape design.
- Develop a complete graphic (plan view) sustainable residential landscape design, including symbols, labels, a plant schedule, and general notes.

Evaluation

Students are evaluated on a variety of projects, including but not limited to:

- **Residential Designs-** complete, rendered residential landscape designs (plan view). A grading checklist will be included in the assignment handout.
- **Planting Designs-** planting plans for residences
- **Demonstration Landscape Designs-** complete, rendered design for a demonstration landscape
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Grading Policy

Students are allowed one un-excused absence; every un-excused absence thereafter drops class grade one letter grade. It is the students' responsibility to make prior arrangements for absences and assignment make-up.

Percent of Final Class Grade:

Project #1- 25%

Project #2- 25%

Project #3- 25%

Project #4- 25%

Grading is based on the following scale:

100 - 95% = A	82 - 80% = B-	69 - 66% = D+
94 - 90% = A-	79 - 76% = C+	65 - 63% = D
89 - 86% = B+	75 - 73% = C	62 - 60% = D-
85 - 83% = B	72 - 70% = C-	59 or less = E

The University of Florida grading policy can be found at

<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>.

Student Responsibilities

Attendance: Students are expected to attend all class meetings and site visits

Preparation: Students are expected to have base maps with overlays when instructed for desk critiques and graphic tools as needed for each site visit

Assignments: Students are expected to complete all assignments by the due date and participate in site visit activities. Students must have a prior agreement and valid excuse to turn in assignments at a later due date (students will receive a “Golden Ticket” to make prior arrangements).

Class Courtesy: All cell phones must be turned **off during lecture**. Laptops are allowed for note taking and phones are allowed during studio and desk critiques.

Materials and supplies: Students are required to purchase graphic materials and supplies included on materials list. All other materials will be provided in class.

Optional References and Text

Required textbook: None. Class handouts and reading materials will be available in class or on the website. Additional materials that students may find helpful include:

1. Thompson, J. W. & Sorvig, K. 2008. *Sustainable Landscape Construction: A Guide to Green Building Outdoors*
2. Smith, C., Clayden, A., & Dunnett, N. 2008. *Residential Landscape Sustainability: A Checklist Tool*
3. Dunnett, N. & Hitchmough, J. 2004. *The Dynamic Landscape*
4. Calkins, M. 2009. *Materials for Sustainable Sites, A Complete Guide to the Evaluation, Selection, and use of Sustainable Construction Materials*
5. Sovinski, R. 2009. *Materials and Their Applications in Landscape Design*
6. Scarfone, S. 2007. *Professional Planting Design, an Architectural and Horticultural Approach for Creating Mixed Bed Plantings*
7. Thomas, H. & Wooster, S. 2008. *The Complete Planting Design Course, Plans and Styles for Every Garden*

UF Policies

Academic Honesty: Once enrolled at the University of Florida each student has agreed to uphold the honor code which states: We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity. Academic misconduct in any form will not be tolerated. University of Florida procedures will be followed to discipline offenders. Visit:

<http://regulations.ufl.edu/chapter4/4017.pdf> to read the Student Honor Code, learn about conduct that constitutes academic dishonesty, and sanctions.

University of Florida Counseling Services: On-campus resources are available for students having personal problems or lacking clear career and academic goals which interfere with their academic performance. These resources include: The University Counseling Center, 301 Peabody Hall, 392-8452, and Student Mental Health in the Student Health Care Center, 846-1030. Counseling resources include;

Student Mental Health-Student Health Care Center, 392-1171, personal counseling:
www.hsc.ufl.edu/shcc/smhs.htm.

University Counseling Center- 301 Peabody Hall, 392-1575, personal and career counseling:
www.counsel.ufl.edu.

Sexual Assault Recovery Services- Student Health Care Center, 392-1161, sexual assault counseling
Career Resources Center- Reitz Union 392-1601, career development assistance and counseling:
<http://www.crc.ufl.edu/>.

Students with Disabilities: Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students office will provide documentation to the student who must then provide this documentation to the course Instructor when requesting accommodation. To register contact: Dean of Students Office, 202 Peabody Hall, 392-7066, www.dso.ufl.edu.

Software Use: All students of the University are required to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the violator. Because such violations are against University policies and rules, disciplinary action will be taken as appropriate.

University Syllabus Statements: Additional information on the statements included in this syllabus concerning academic honesty, software use, UF counseling services, and services for students with disabilities can be found at http://cals.ufl.edu/cals_solutions/currriculumcommittee.shtml.

Spring 2016 Semester Schedule

Week 1- Introduction to class

Lecture 1- Class Syllabus

Lecture 2—Plant Material- qualities of resource efficient plants

Week 2- Sustainable Strategies and Preferences

Lecture 1- Sustainable Design Strategies

Lecture 2- Public Preferences/Acceptance of sustainable design

Week 3- Grading Concepts and water management

Lecture 1- Topography and grading

Lecture 2- Grading plans

Week 4- Hardscape Materials

Lecture 1- Lifecycle assessment materials

Lecture 2- Recycled materials

Week 5- Hardscape Materials

Lecture 1- Wood, Wood products, Preservatives, Paints, Stains, Plastics

Lecture 1- Wood, Wood products, Preservatives, Paints, Stains, Plastics

Week 6- Energy Conserving Landscape

Lecture 1- Concrete, Pavers, Bricks, Aggregate

Lecture 2- Sun/shade patterns, using trees for energy efficiency

Week 7- Irrigation Systems

Lecture 1- Basics of irrigation- head layout and watering zones

Desk crits

Week 8- Lighting Systems

Lecture 1- Light fixtures and pattern/layout for lights.

Desk crits

Week 9- Spring Break**Week 10- Sustainable Landscape Certifications**

Lecture 1- Certifications and the score sheets

Lecture 2- Site visit with score sheet.

Week 11- Cost estimates for Projects

Lecture 1- Develop budget/cost estimates for projects

Estimate Project #4 costs.

Week 12- Material Specification and Costs

Lecture 1- Writing material specifications, including plant grades and standards

Desk crits

Week 13- Contract Writing

Lecture 1- Writing Bids, including scope of services and cost estimates.

Desk crits for Project #5

Week 14- Project Review

Desk Crits

Weeks 15, 16

Project #4 due