Landscape Ecology and Management  
LAA 2532  
Class Number: 15105  
3 Credit Hours  

Spring 2021  
Online, Tues 1:55-3:50pm (Periods 7-8), Thurs 1:55-2:45pm (Period 7)  
*Online Zoom link to be provided via Canvas*

**Instructors:**  
Tom Hoctor  
Email: tomh@geoplan.ufl.edu  
Michael Volk  
Email: mikevolk@ufl.edu

**Teaching Assistants:** N/A  

**Office Hours:**  
By appointment via email or as arranged during class

**Course Website:** [http://lss.at.ufl.edu](http://lss.at.ufl.edu)

**Course Communications:** Questions regarding this course may be submitted via email or during class sessions.

**Required Text:** Reading list is included in the syllabus and available on the class website

**Course Description:** The goal of this course is to develop the ability to make planning and design decisions based upon sound landscape management and maintenance practices through understanding and application of fundamental principles of ecology and landscape ecology.

**Prerequisite Knowledge and Skills:** No prerequisite courses are required. Strong verbal and writing skills will be highly valuable, and supplementary reading and writing courses may be advisable for students with English as a second language. Use of the UF reading and writing lab is encouraged for all students.

**Purpose of Course:** The purpose of this course is to develop the ability to make planning and design decisions based upon sound ecological landscape management and maintenance practices through understanding and application of fundamental principles of ecology and landscape ecology. At the end of the course, students should have an understanding of relevant ecological principles and landscape ecology, how ecology affects management and design decisions at both a regional and site scale, and an understanding of proper landscape maintenance practices and how they inform design.
Course Goals and/or Objectives: The primary objectives of this course are as follows:

- Develop an understanding of relevant ecology, plant ecology, conservation biology, landscape ecology and application to design and natural and cultural resource management.
- Further the ability to plan, design and maintain landscapes based upon sound ecological and landscape management principles.

Student Learning Outcomes: This course relates in the following ways to the student learning outcomes for the Bachelor of Landscape Architecture degree:

Content Knowledge:
- Refine students’ knowledge base of ecology and its application to natural resource management.
- Develop a fundamental knowledge base of conservation biology and landscape ecology to understand their relevance to landscape design.
- Develop a basic understanding of landscape and resource management principles and practices that are based upon fundamental principles of ecology and landscape ecology.
- Develop an understanding of landscape maintenance practices and how maintenance considerations may influence design at the site level. This may include maintenance practices needed for different plants such as mowing, weed removal, and mulching; considerations such as hydro-zoning; maintenance considerations related to bed design; and knowledge related to integrated pest management.

Critical Thinking:
- Develop the ability to plan and design a variety of landscapes at multiple scales based upon sound ecological, resource management, and maintenance principles.

Teaching Philosophy: In this course we hope to foster a dynamic and collaborative learning environment for both students and instructors. Our goal is to guide students towards an understanding of landscape management, maintenance, and design practices based on a sound understanding of ecological processes.

Instructional Methods: Course instruction will be primarily based on lectures provided during class time, and potentially readings, discussions, guest lecturers, student presentations, and field trips.

Course Schedule (This schedule is an approximation: topics and dates may be modified as we progress through the material)

Week 1 (January 11-15): Course Introduction; environmental degradation
Week 2 (January 18-23): Ecological concepts
Week 3 (January 25-30): Plant ecology
Week 4 (February 1-5): Conservation biology
Week 5 (February 8-12): Landscape ecology
Week 6 (February 15-19): Exam 1 online; Habitat fragmentation
Week 7 (February 22-26): Green infrastructure and ecosystem services
Week 8 (March 1-5): Wildlife corridors and ecological networks
Week 9 (March 8-12): Road ecology; Exam 2 online; Florida Ecosystems
Week 10 (March 15-19): Florida Ecosystems continued; Introduction to Landscape Management and Maintenance
- Florida ecosystems
- Introduction, intro to landscape management, management and maintenance plans
Week 11 (March 22-26): Large Scale Site Planning and Management Principles
- Wetland and watershed management (urban and natural) and ecosystems
- Sweetwater Branch watershed virtual tour

Week 12 (March 29-April 2): Large Scale Site Planning and Management Principles
- Upland forest management and ecosystems and possible guest lecture
- Row crop and ranchland management
- NATL Paper: Provide a short report on the Natural Areas Teaching Laboratory/SEEP (https://natl.ifas.ufl.edu/index.php), including purpose and management strategies. This should be a 1.5-2 page, single spaced paper, with proper in-text citations and works cited section. This will be due by April 9th on Canvas.

Week 13 (April 5-9) Small Scale Site Design and Maintenance Principles
- Intro to small scale site design and maintenance principles
- Firewise and coastal design

Week 14 (April 12-16) Small Scale Site Design and Maintenance Principles
- Overview of the UF/IFAS Landscape Units and possible guest lecture
- Florida Friendly Landscape principles

Week 15 (April 19-23) Final Exam Review
- Extra Credit: 1.5-2 page, single spaced paper, with proper in-text citations and works cited section on one of the following topics. Due date: April 30th
  - Visit and report on FFL techniques used in the Madera Subdivision
  - Report on Glen Springs impairment issues (locally) or springs impairment issues in NC Florida in general

Required Readings
Book: Practical Ecology
Other journal and internet articles

Week 1 (January 11-15):

Week 2 (January 18-23):
Practical Ecology, Chapter 3, 14 pages.
Practical Ecology, Chapter 6, pages 118-127, 10 pages.

Week 3 (January 25-30):
Practical Ecology, Chapter 5, 19 pages.

Week 4 (February 1-5):
Practical Ecology, Chapter 6, pages 93-118, 26 pages.

Week 5 (February 8-12):
No Readings; exam week

Week 6 (February 15-19):
Habitat fragmentation internet article, approximately 4 pages: http://www.eoearth.org/view/article/153225/

Week 7 (February 22-26):
Ecosystem Services online articles (both are no more than 2-3 pages):
https://www.britannica.com/science/ecosystem-services
**Week 8** (March 1-5):
Practical Ecology, Chapter 7, 20 pages.

**Week 9** (March 8-12):

**Supplemental (Voluntary) Readings**

**Articles and chapters**

**Books**

**Resource Materials**
Les Linscott Class Book
Grading Policies

Primary Tasks and Evaluation: We anticipate the following list of tasks and evaluation weightings for the semester.

<table>
<thead>
<tr>
<th>Tasks</th>
<th>Percent of Grade</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>25%</td>
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<tr>
<td>Exam 2</td>
<td>25%</td>
</tr>
<tr>
<td>NATL Paper</td>
<td>10%</td>
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<tr>
<td>Final Exam</td>
<td>40%</td>
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Extra Credit: Students who complete the extra credit paper will receive up to 5 additional points on top of their final exam grade (only one topic and paper can be provided for extra credit). There will also be an additional question on the exam for extra credit.

Grading Scale: According to Departmental 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. Grading will adhere to the University of Florida Grade Policy:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
<th>D-</th>
<th>E</th>
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</thead>
<tbody>
<tr>
<td>Numeric Grade</td>
<td>93-</td>
<td>90-</td>
<td>87-</td>
<td>83-</td>
<td>80-</td>
<td>77-</td>
<td>73-</td>
<td>70-</td>
<td>67-</td>
<td>63-</td>
<td>60-</td>
<td>59-</td>
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<tr>
<td>Quality Points</td>
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<td>3.67</td>
<td>3.33</td>
<td>3.0</td>
<td>2.67</td>
<td>2.33</td>
<td>2.0</td>
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<td>1.33</td>
<td>1.0</td>
<td>0.67</td>
<td>0.0</td>
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Course Schedule

Schedule and Final Exam: The course schedule is provided above, and will be updated as needed. Class meeting times are subject to possible change upon agreement with class.

Course Policies

Attendance Policy: Attendance to class is mandatory. One unexcused absence is permitted. Each additional absence will lower the student’s grade by 4%. Students are requested to contact an instructor if they will not be attending class. Cell phone use is not acceptable in class except for emergencies and should be conducted outside of the classroom.

Assignment Policy: Students are expected to complete all assignments in a timely fashion, as well as actively participate in the discussion and combined group tasks. Timely completion of all project requirements is expected. Late work will be penalized 4% per day unless there is an acceptable excuse for the late submittal. Work submitted more than one week late will not be accepted.

Course Technology: All course content will be available through Canvas, UF’s online learning portal unless otherwise specified. Students may access this site at [https://lss.at.ufl.edu/](https://lss.at.ufl.edu/) by logging in with their UF credentials. All assignments are to be submitted to Canvas unless otherwise indicated.
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 (Canvas, CD, PDF, word file, etc.). However, all files must be named as follows:

UF Policies

University Policy on Accommodating Students with Disabilities: 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.

University Policy on Academic Misconduct: Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at http://www.dso.ufl.edu/students.php.

**Netiquette: Communication Courtesy:** All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. [Describe what is expected and what will occur as a result of improper behavior – http://teach.ufl.edu/docs/NetiquetteGuideforOnlineCourses.pdf]

Course Evaluations: 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://bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/publicresults/.

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.

Other resources are available at http://www.distance.ufl.edu/getting-help for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support
Should you have any complaints with your experience in this course please visit http://www.distance.ufl.edu/student-complaints to submit a complaint.

Disclaimer: This syllabus represents current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.