

Wildlife Habitat Management

WIS 6934 (3 Credits)

Spring 2017

Lecture: Tuesday, Periods 7-8 (1:55-3:50 p.m.); Room 222, Newins-Ziegler Hall (NZH)
Wednesday, Periods 7-8 (1:55-3:50 p.m.); Room 219, Newins-Ziegler Hall (NZH)

Instructor: Bill Giuliano
Office: Room 308, Newins-Ziegler Hall
Office Hours: Tuesday & Thursday, 9:00-10:30 a.m. and by appointment
Phone: 352-846-0575
Email: docg@ufl.edu
Course Website: <http://elearning.ufl.edu/>; Login with GatorLink Username & Password

Graduate Teaching Assistant: This is a graduate student who has been assigned to the course. She is available both during and outside of class meetings to help me administer the course (e.g., exam development and grading) and help you in any way. Please use her as much as needed, but recognize that I am still always available, she is a student only a few years further along than you, and she is following my direction.

Teaching Assistant: Diane Episcopio
Office Hours: Wednesday, 11:00 a.m.-1:00 p.m.
Office Location: 366 Newins-Ziegler Hall
Email: episcopiod1@ufl.edu

Preferred Methods of Communication & Conflict Resolution: The preferred method of resolving questions, concerns, and issues regarding course content and expectations is to ask questions of the Instructor or Teaching Assistant in class or during office hours. Alternatively, contact the Instructor or Teaching Assistant via their UFL Email (see above). **Do Not** contact the Instructor or TA via the internal <http://elearning.ufl.edu/> Course Email/Conversations. To resolve technical issues contact the UF Computing Help Desk at 352-392-4357 or <http://helpdesk.ufl.edu>.

Course Description: Application of land management practices and their effects on wildlife and habitats in Florida (and elsewhere).

Course Goals: Upon completion of this course, students will be able to *See the Land* – i.e., identify habitats, resources, conditions, important plants, and associated wildlife, threats, and issues; have an understanding of wildlife habitat management principles and practices used to create, maintain, enhance, and restore habitat for the benefit of wildlife; and be able to apply their knowledge and skills to manage a range of wildlife habitats.

Prerequisite Course: WIS 3401 – Wildlife Ecology & Management or equivalent course. Much of the Wildlife Habitat Management course requires a prior and thorough understanding of the concepts, principles, and practices introduced in the prerequisite course. Several lectures from the prerequisite course are posted on the course website. However, students may wish to review the prerequisite course.

Online: Distance Section Students ONLY may participate in the lecture portion of the course in real time online at <http://ufifas.adobeconnect.com/wis4427/>. If you have never attended an Adobe Connect meeting before, you can test your connection at http://ufifas.adobeconnect.com/common/help/en/support/meeting_test.htm, and get a quick overview at <http://www.adobe.com/products/adobeconnect.html>. To ask questions or make comments during the live lecture, simply type the question/comment in to the Chat Room on the lower right side of the screen. Recordings of

all lectures will be available via the course website at <https://elearning.ufl.edu/>. All times listed in the Syllabus, Course Schedule, etc. are Eastern Time.

Textbook: Silvy, N.J. (editor). 2012. The wildlife techniques manual: management (Volume 2), 7th edition. The Johns Hopkins University Press, Baltimore, MD.

Readings: Copies of readings will be available online through the course website (see below). Readings, in addition to text chapters, must be reviewed prior to the appropriate class.

Course materials: The course syllabus, lecture outlines, and prerecorded lectures will be available on the course website. Materials will require Adobe Acrobat Reader (available free of charge at <http://www.adobe.com/products/acrobat/readstep2.html>) and/or MS PowerPoint to access and print.

Evaluation: To assess how well we achieve course goals and objectives, and allow you to demonstrate your knowledge and skills in the principles and practices of wildlife habitat management and their application in solving wildlife habitat management problems, we have developed several evaluation instruments (i.e., exams and other assignments). Because students differ in which method best evaluates their true knowledge and understanding, we varied both the type (e.g., exams vs. Habitat Management Plan) and form of assessment within (e.g., multiple choice vs. graphics/models) evaluation instruments (described below).

Grading:	Midterm Exam (100 pts) & Final Exam (100 pts)	200 pts
	Wildlife Plants & Habitats Practical	100 pts
	Habitat Management Assignments (10 @ 15 pts each)	150 pts
	Habitat Management Programs Document & Presentation	----- pts
	Habitat Presentations (2 @ 30 pts each)	60 pts
	Wildlife Plant Presentations (2 @ 15 pts each)	30 pts
	Field Exercises (4 @ 45 pts each)	180 pts
	Habitat Management Plan	180 pts
	Participation	100 pts
	Total	1000 pts

Grades: A (≥ 900 pts), B (800-899 pts), C (700-799 pts), D (600-699 pts), and E (≤ 599 pts).

Grading Policy: If there is a summation error for points on any exam or assignment, see me immediately so I can correct your total score/points. If you believe that an exam question, exam overall, or other assignment was improperly graded, please bring it to me for reevaluation. In such cases, the entire exam or assignment will be reevaluated, and a new grade assigned for the entire exam or assignment. Please regularly check the grades for exams and other assignments on the course website, and notify me immediately if a grade is incorrectly recorded.

Midterm & Final Exams: All exams will consist of a combination of multiple-choice (with multiple correct answers possible), true/false, matching, short answer, essay questions, and graphics/models (e.g., diagrams) in multiple parts that will allow you to demonstrate your knowledge and ability to synthesize, integrate, and apply knowledge and skills related to wildlife habitat and its management. The Final Exam will emphasize (>50%) material covered since the previous exam, but will be comprehensive; and will additionally rely on your knowledge of wildlife plants & habitats evaluated in the Plants & Habitats Practical (see below). If you do not complete an exam during the assigned period, you will receive a grade of zero (0) for that exam. Make-up exams will only be given if you have an approved absence (i.e., arranged before the absence and you have a note from a medical doctor or an appropriate University official). You are responsible for all material covered in assigned text chapters, readings (including the internet), videos, lectures, discussions, habitat presentations, and guest speakers. Review sessions will be scheduled before each exam. Exams are closed book; books, notes, papers, computers (except the one a student is working on to access <http://elearning.ufl.edu/>), other electronic devices, headphones, earpieces, and other listening devices are not permitted to be used or in sight during an exam, and students must work alone. Part I (the short answer, essay

question, and graphics/models [e.g., diagrams] parts of exams) of the exams will be completed in the assigned classroom at the assigned class meeting time for Non-distance Section students, with Distance Section students completing it online at <http://elearning.ufl.edu/>; and Part II (the multiple choice, true/false, and matching parts of exams) will be completed by All students online at <http://elearning.ufl.edu/>. Questions for all parts of the exam will be randomly drawn from question pools. Each part of each exam is time-limited. Additional instructions can be found on the course website. You must go online to <http://elearning.ufl.edu/> and complete the Practice Exam by 1:55 p.m., January 18, 2017. Failure to complete this by this time/date will result in the loss of 20 points from the final course grade. If you have problems completing the practice exam, notify me immediately.

Wildlife Plants & Habitats Practical: The practical will consist of a combination of multiple-choice (with multiple correct answers possible), true/false, fill-in, matching, and identification in the classroom and the field that will allow you to demonstrate your knowledge and ability to identify important Wildlife Plants (based on Wildlife Plants Presentations [see below]); wildlife habitats, habitat resources, conditions, and processes; and wildlife-habitat relationships (based on Habitat Presentations [see below] and FNAI Habitat Descriptions found in Florida Natural Areas Inventory [2010; see Course Schedule and Readings Assignments below]). If you do not complete the Practical during the assigned period, you will receive a grade of zero (0). Make-up Practical's will only be given if you have an approved absence (i.e., arranged before the absence and you have a note from a medical doctor or an appropriate University official). You are responsible for all material covered in assigned text chapters, readings (including the internet), videos, lectures, discussions, habitat presentations, and guest speakers that relates to important Wildlife Plants and FNAI Habitats covered in class and as Habitat Presentations (see below). For ALL Habitats listed in the Course Schedule (below), you are responsible for all information covered in the Florida Natural Areas Inventory (FNAI). 2010. Guide to the natural communities of Florida: 2010 edition. Florida Natural Areas Inventory, Tallahassee, FL. However, you are only responsible for Wildlife Plants that are covered by a student presentation. Review sessions will be scheduled before the Practical. The Practical is closed book; books, notes, papers, computers (except the one a student is working on to access <http://elearning.ufl.edu/>), other electronic devices, headphones, earpieces, and other listening devices are not permitted to be used or in sight during an exam, and students must work alone. Part I of the exams will be completed in the assigned classroom at the assigned class meeting time for Non-distance Section students, with Distance Section students completing it online at <http://elearning.ufl.edu/>; and Part II will be completed by All students online at <http://elearning.ufl.edu/>. Questions for all parts of the exam will be randomly drawn from question pools. Each part of each exam is time limited. Additional instructions can be found on the course website. You must go online to <http://elearning.ufl.edu/> and complete the Practice Exam by 1:55 p.m., January 18, 2017. Failure to complete this by this time/date will result in the loss of 20 points from the final course grade. If you have problems completing the practice exam, notify me immediately.

Habitat Management Assignments: To understand wildlife habitat management principles and practices and how to apply these in various systems, preparation for and participation in each class meeting is essential. Review of assigned readings and pre-recorded lectures for each class meeting is a necessity, as is solving real-world habitat management problems. Preparation and application of knowledge during classes covering management practices and various systems (marked with "*" in Course Schedule below) will be evaluated by completing in-class assignments. Each assignment is worth 15 points, will be completed in 2 parts, and must be submitted during the associated class. Distance Section students will complete the 2 parts by 5:00 p.m. on the Friday immediately following the assignments at <http://elearning.ufl.edu/>. Part I (5 pts) will be an assessment evaluating your understanding of the readings and prerecorded lecture and Part II (10 pts) will include problem-solving related to the current topic. You will receive an automatic 5 points per day deduction for every day an assignment is late, unless associated with an approved absence (see Exams above).

Habitat Management Programs Document & Presentation: All graduate students in the course will collectively develop and deliver/present a document (i.e., Word) and Presentation (i.e., PowerPoint) on Habitat Management Programs to the class. Content will include a description (i.e., what does it do for landowners, managers, and habitat), general application procedure, and leading agency/organization of state (e.g., FWC Landowner Assistance Program, Florida Land Steward Program, etc.), federal (e.g., USDA and Farm Bill Programs, USFWS Partners for Fish and Wildlife Program, Cooperative Extension Service, etc.), and private (e.g., Pheasants Forever Habitat Programs)

habitat management programs providing financial and/or technical assistance to manage wildlife habitat. The Document and Presentation will each be submitted online at <https://elearning.ufl.edu/> as .doc/.docx and .ppt/.pptx files only, and are due by 5:00 p.m., Friday, February 24, 2017. Turnitin (plagiarism checker) will automatically check all materials. The Document and Presentation will each be graded as Satisfactory (0 pts) or Unsatisfactory (-50 pts). Late Documents and Presentations will lose 10 points for each day they are late unless associated with an approved absence (i.e., arranged before the absence and you have a note from a medical doctor or an appropriate University official).

Habitat Presentations: Each student will prepare and deliver two 15 minute oral presentations (i.e., PowerPoint) on a particular Florida (FNAI) habitat that will allow you to develop an in-depth understanding of wildlife habitats and professional presentation skills. This will include a detailed description of the habitat (including resources, conditions, distribution, and status and details on how to identify this habitat in the field); plants (10) and animals (10) most commonly found in the habitat; obligate, threatened, and endangered wildlife species associated with the habitat; and management and restoration practices commonly associated with the habitat. Habitats will be randomly assigned to students by the Instructor. 2+ presentations will be delivered during selected class meetings (see Course Schedule). A copy of each presentation will be submitted online at <http://elearning.ufl.edu/> no later than 24 hours prior to the class in which the presentation will be given. Additional instructions can be found on the course website. Late presentation copies and presentations will lose 10 points for each day they are late unless associated with an approved absence (see Exams above).

Wildlife Plant Presentations: Each student will prepare and deliver two 5 minute oral presentations (i.e., PowerPoint) on a wildlife plant to develop an in-depth understanding of the plant and professional presentation skills. This will include a detailed description of how to identify the plant (particularly on how to distinguish it from similar species), its value to wildlife (e.g., food or cover; with particular reference to wildlife species that commonly use or require it) and society, FNAI habitats it would commonly be found in, its conservation status/availability and factors affecting it, and management practices to enhance its productivity, quality, and quantity for wildlife. Plants will be randomly assigned to students by the Instructor. 2+ presentations will be delivered during selected class meetings (see Course Schedule). A copy of each presentation will be submitted online at <http://elearning.ufl.edu/> no later than 24 hours prior to the class in which the presentation will be given. Additional instructions can be found on the course website. Late presentation copies and presentations will lose 5 points for each day they are late unless associated with an approved absence (see Exams above).

Field Exercises: Each student will attend 4 exercises (i.e., field trips) or complete a Report for each in lieu of attendance that will allow you to experience wildlife plants and habitats, habitat management practices, and habitat management tools. Vans will provide transportation from campus to and from each site. All field exercises will begin a 6 a.m. (unless I tell you otherwise) at the location of the exercise (see below) and will continue until completed (usually all day). Attendance at a field exercise (documented by signing the attendance sheet) will result in receiving full credit (45 pts) for that exercise (minus any deductions described below). You may drive yourself. However, late arrival at an exercise will lead to 10 points per hour penalty on your exercise grade. Similarly, leaving an exercise early will lead to 10 points per hour penalty on your exercise grade. Note that the exercises take place over weekends. The trips are within ~2 hours drive of campus. If you do not attend an exercise, you will receive a grade of 0 pts for that exercise, unless a Report is completed. Each Report will be a ≤ 25 page (typed; 12 point font; 2.5 cm margins; single-spaced) document describing the use of habitat management tools and/or habitat management practices assigned to you by me, the habitats in which they might be applied, their effects on wildlife and habitat, and special considerations in their implementation. Your Report will also include a review of >5 scientific articles that detail the use of the tools or practices to manage the habitat of a particular species or group of species. Reports are due by 5 p.m. on the Friday immediately following the corresponding exercise. Reports will be submitted online at <http://elearning.ufl.edu/>. Additional instructions can be found on the course website. You will receive an automatic 10 points per day deduction for every day a Report is late, unless associated with an approved absence (see Exams above).

Habitat Management Plan: Based on visits to Caravelle Ranch WMA (1-2 April 2017), you will complete a plan for the property that will allow you to demonstrate your knowledge and ability to synthesize, integrate, and apply knowledge and skills related to wildlife habitat management. Vans will provide transportation from campus to and from the property. You may drive yourself. However, late arrival will lead to 10 points per hour penalty on your final course grade. The written plan will be graded on content, writing style/clarity, and grammar. Specific plan guidelines and grade sheets will be provided during class and on the course website. You may use any information source (e.g., class and field notes, internet resources, library materials, and discussions with biologists and land managers) to prepare your plan. Habitat Management Plans will be submitted online at <http://elearning.ufl.edu/>. Additional instructions can be found on the course website. Late plans will lose 40 points for each day they are late unless associated with an approved absence (see Exams above). You must go online to <http://elearning.ufl.edu/> and complete the Practice Habitat Management Plan by 1:55 p.m., January 18, 2017. Failure to complete this by this time/date will result in the loss of 20 points from the final course grade. If you have problems completing the practice plan, notify me immediately.

Participation: To understand wildlife habitats and their management and achieve the course goal, active participation and experience in each of the class meetings, exercises, etc. is a necessity. All students are expected to attend every class. You are allowed to miss one non-Field Exercise class without penalty. For each unexcused class absence after the first, 4 points will be deducted from your Participation grade (documented by signing the attendance sheet; you are responsible for signing the attendance sheet each class meeting).

Class Demeanor: Students who come to class late, have ringing cell phones, read the newspaper or other non-class-related materials, play games, sleep, or who talk during class (on cell phones or to others in the class when it is not part of a class-related discussion), disrupt the class; for each such disruption, 10 pts will be deducted from the final course grade.

elearning: <http://elearning.ufl.edu/> contains the course website, with the testing and assignment submission location, and includes all course information, materials, and scheduling. *Students are responsible for using a reliable and fast computer and internet connection* while completing Exams and the Practical. Completing the Practice Exam and Habitat Management Plan will allow you to assess your computer and internet connections. Working on campus computers and networks may be helpful. Unless the entire <http://elearning.ufl.edu/> or UF Computer Network are slowed or not working, slow or lost connections and computers that “die” are not acceptable reasons for incomplete, unfinished, or missing Exams and other assignments. Turnitin (plagiarism checker) will automatically check all written assignments (e.g., Habitat Management Plans).

Distance-delivered Courses: Each online distance-learning program has a process for, and will make every attempt to resolve, student complaints within its academic and administrative departments at the program level. See <http://distance.ufl.edu/student-complaints> for more details.

Academic Honesty: As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit 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."

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of

disciplinary action. For more information regarding the Student Honor Code, please see <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>.

Software Use: All faculty, staff, and students of the university are required and expected 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 individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Campus Resources: Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

Health and Wellness

- U Matter, We Care: If you or a friend is in distress, please contact umatter@ufl.edu or 352-392-1575 so that a team member can reach out to the student.
- Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 352-392-1575.
- Sexual Assault Recovery Services (SARS): Student Health Care Center, 392-1161.
- University Police Department: 352-392-1111 or 9-1-1 for emergencies. <http://www.police.ufl.edu/>.

Academic Resources

- E-learning technical support: 352-392-4357 (select option 2) or e-mail to Learningsupport@ufl.edu. <https://elearning.ufl.edu/help.shtml>.
- Career Resource Center: Reitz Union, 352-392-1601. Career assistance and counseling. <http://www.crc.ufl.edu/>.
- Library Support: <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.
- Teaching Center: Broward Hall, 352-392-2010 or 392-6420. General study skills and tutoring. <http://teachingcenter.ufl.edu/>.
- Writing Studio: 302 Tigert Hall, 352-846-1138. Help brainstorming, formatting, and writing papers. <http://writing.ufl.edu/writing-studio/>.
- Student Complaints Campus: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.

Services for Students with Disabilities: The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services, and mediating faculty-student disability related issues. 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 Instructor when requesting accommodation: 0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/.

Sexual Harassment: It is the policy of The University of Florida to provide an educational and working environment for its students, faculty, and staff that is free from sex discrimination and sexual harassment. In accordance with federal and state law, the University prohibits discrimination on the basis of sex, including sexual harassment. Sex discrimination and sexual harassment will not be tolerated, and individuals who engage in such conduct will be subject to disciplinary action. The University encourages students, faculty, staff, and visitors to promptly report sex discrimination and sexual harassment. Any employee, co-worker, or student who has knowledge of sexual harassment is strongly encouraged to report it promptly: <http://hr.ufl.edu/manager-resources/recruitment-staffing/institutional-equity-diversity/sexual-harassment/>.

Course Evaluation & Student Complaint Process: 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/>. To file a complaint about this course, see:

- Residential Course: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.
- Online Course: <http://www.distance.ufl.edu/student-complaint-process>.

Course Schedule		
Date	Topic	Readings
1/4	Course Introduction Florida Natural Areas Inventory (FNAI) Preparing Habitat & Wildlife Plant Presentations “See the Land”	1
1/10	Wildlife Habitat	2
1/11	General Considerations in Wildlife Habitat Management Philosophy of Wildlife Habitat Management	3
1/17	Hardwood Forested Uplands: Slope forest, Upland hardwood forest, Mesic hammock, Rockland Hammock, & Xeric hammock Plants: Southern live oak, Water oak, Turkey oak, & Southern red oak	4
1/18	Practice Exam and Practice Habitat Management Plan (Due before 1:55 p.m.; http://elearning.ufl.edu/) Habitat Management Planning & Monitoring Habitat Management Plans	5
1/24	High Pine & Scrub: Upland mixed woodland, Upland pine, Sandhill, & Scrub Plants: Longleaf pine, Slash pine, Pond pine, Sand pine, & Cabbage palm	
1/25	* Management Practices: Prescribed Fire	6
1/31	Pine Flatwoods & Dry Prairie: Wet flatwoods, Mesic flatwoods, Scrubby flatwoods, Pine rockland, & Dry prairie Plants: Wiregrass, Bluestems, Indiangrass, & Switchgrass	
2/1	* Management Practices: Grazing	7
2/7	Freshwater Forested Wetlands – Cypress/Tupelo: Dome swamp, Basin swamp, Strand swamp, & Floodplain swamp Plants: Maidencane, Southern magnolia, Cypress spp., Sycamore, & Water tupelo	
2/8	* Management Practices: Mechanical	8
2/14	Freshwater Forested Wetlands – Hardwood: Baygall, Hydric hammock, Bottomland forest, & Alluvial forest Plants: Red cedar, Black cherry, Wild grape, & Prickly pear cactus	
2/15	* Management Practices: Chemical	9
2/21	Freshwater Non-forested Wetlands – Prairies & Bogs: Seepage slope, Wet prairie, Marl prairie, & Shrub bog Plants: Cattail, Saw palmetto, Gallberry, & Wax myrtle	
2/22	* Management Practices: Natural & Artificial Features	10
2/28	Habitat Management Programs Management Practices: Putting it all together	
3/1	Midterm Exam Part I: 1:55 – 2:55 p.m., Room 219, Newins-Ziegler Hall and Part II: any 30 minute block, 2:55 – 11:00 p.m., http://elearning.ufl.edu/	

Course Schedule		
Date	Topic	Readings
3/7	No Class – Spring Break	
3/8	No Class – Spring Break	
3/14	Freshwater Non-forested Wetlands – Marshes: Depression marsh, Basin marsh, Coastal interdune swale, Floodplain marsh, Slough marsh, Glades marsh, & Slough	
3/15	* Farmland Management	11
3/21	Habitat Management Plan Preparation Plants & Habitats	
3/22	* Rangeland Management	12
3/28	Marine & Estuarine Vegetated Wetlands: Salt marsh, Mangrove swamp, & Keys tidal rock barren Plants: Cordgrass, Mangrove spp., Bramble, Greenbriar, Beautyberry, & Partridge pea Habitat Management Plan Preparation	
3/29	* Forest Management	13
4/4	Coastal Uplands: Beach dune, Coastal berm, Coastal grassland, Coastal strand, Maritime hammock, & Shell Mound Plants: Seashore paspulum, Sea oats, Milkweed, Ragweed, & Goldenrod	
4/5	* Wetland & Coastal Management	14
4/11	Sinkholes & Outcrop Communities: Upland glade, Sinkhole, Limestone outcrop, & Keys cactus barren Subterranean: Aquatic & Terrestrial Cave Plants: Melaleuca, Brazilian pepper, Tropical soda apple, Bahiagrass, Bermuda grass, Cogon grass, & Old world climbing fern Habitat Management Plan Preparation	
4/12	Habitat Management Plan (Due before 1:55 p.m., http://elearning.ufl.edu/) * Urban & Suburban Management	15
4/18	Plants & Habitats Management: Putting it all together	
4/19	Plants & Habitats Practical Part I: 1:55 – 2:55 p.m., Room 219, Newins-Ziegler Hall and Part II: any 30 minute block, 2:55 – 11:00 p.m., http://elearning.ufl.edu/	
4/26	Final Exam (30B) Part I: 8:30 a.m. – 9:30 a.m., Room 222, Newins-Ziegler Hall and Part II: any 30 minute block, 9:30 a.m. – 11:00 p.m., http://elearning.ufl.edu/	

Field Exercises & Habitat Management Planning Schedule	
Dates	Topic
4/1	Habitat Management Tools: Caravelle Ranch WMA Habitat Management Plan: Caravelle Ranch WMA
4/2	Habitats, Tools, & Practices: Caravelle Ranch WMA – Farmlands, rangelands, food plots, & dove fields Habitat Management Plan: Caravelle Ranch WMA
4/8	Habitats, Tools, & Practices: Ocala National Forest – Forests
4/9	Habitats, Tools, & Practices: Guana River WMA – Freshwater & coastal wetlands, scrub, flatwoods, & dunes

#	Reading Assignments
1	Florida Natural Areas Inventory (FNAI). 2010. Guide to the natural communities of Florida: 2010 edition. Florida Natural Areas Inventory, Tallahassee, FL.
2	Yarrow, G.K., and D.T. Yarrow. 1999. Managing wildlife. Chapter 3-Wildlife habitat management. Yahner, R.H. 1988. Changes in wildlife communities near edges. Conservation Biology 2:333-339. Van Horne, B. 1983. Density as a misleading indicator of habitat quality. Journal of Wildlife Management 47:893-901
3	Donlan, J., et al. 2005. Rewilding North America. Nature 436:913-914.
4	
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6	Willcox, E.V., and W.M. Giuliano. 2010. Seasonal effects of prescribed burning and roller chopping on saw palmetto in flatwoods. Forest Ecology and Management 259:1580-1585.
7	Homyack, J.D., and W.M. Giuliano. 2002. Effect of streambank fencing on herpetofauna in pasture stream zones. Wildlife Society Bulletin 30:361-369.
8	Fleming, K., and W.M. Giuliano. 1998. Effect of border-edge cuts on bird communities in farm woodlots of southwestern Pennsylvania. Journal of Wildlife Management 62:1430-1437.
9	Jones, P.D., et al. 2009. Habitat quality following mid-rotation treatment in Conservation Reserve Program pines. Journal of Wildlife Management 73:1166-1173.
10	Giuliano, W.M., et al. 2007. Supplemental feeding and food plots for bobwhite quail. Florida Cooperative Extension Service, WEC224. Brittingham, M.C., and C.A. DeLong. 1998. Management Practices for Enhancing Wildlife Habitat. Pennsylvania Cooperative Extension Service, UH107.
11	Textbook Chapter 30 Giuliano, W.M., and S.E. Daves. 2002. Avian response to warm-season grass use in pasture and hayfield management. Biological Conservation 106:1-9.
12	Textbook Chapter 27 Willcox, E.V., et al. 2010. Avian community response to grazing intensity on monoculture and mixed Florida pastures. Rangeland Ecology and Management 63:203-222.
13	Textbook Chapter 26 Ober, H.K., and J.L. Trusty. 2009. Forest groundcover restoration. Florida Cooperative Extension Service, WEC269. Ober, H.K. 2009. The importance of bottomland hardwood forests for wildlife. Florida Cooperative Extension Service, WEC271. Ober, H.K. 2009. The value of oaks to wildlife. Florida Cooperative Extension Service, WEC248. Ober, H.K., and P.J. Minogue. 2008. Managing oaks to produce food for wildlife. Florida Cooperative Extension Service, WEC249. Ober, H.K., and P.J. Minogue. 2007. Dead wood: key to enhancing wildlife diversity in forests. Florida Cooperative Extension Service, WEC238. Arny, N.P., and D.M. Flinchum. 2006. Common pines of Florida. Florida Cooperative Extension Service, FOR21.
14	Textbook Chapters 28 and 29 Schaumburg, K., et al. 2011. Avian habitat relationships in urban and suburban tidal marshes of Connecticut. Urban Habitats http://www.urbanhabitats.org/v06n01/avian_full.html . Cowardin, L.M., et al. 1979. Classification of wetlands and deepwater habitats of the United States (supplemental material – not required reading)
15	Textbook Chapter 31 Giuliano, W.M., et al. 2004. Lepidoptera-habitat relationships in urban parks. Urban Ecosystems 7:361-370.