

Wildlife Ecology & Management
WIS 3401 (3 Credits)
Spring 2017

Lecture: Tuesday, Periods 5-6 (11:45 a.m.-1:40 p.m.); Room 0112, Newins-Ziegler Hall & Online
Thursday, Period 5 (11:45 a.m.-12:35 p.m.); Room 0112, Newins-Ziegler Hall & Online

Instructor: Bill Giuliano
Office: 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: <https://elearning.ufl.edu/>; access 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: Farah Carrasco Rueda
Office Hours: Monday, 1:00-3:00 p.m. and by appointment
Office Location: 366 Newins-Ziegler Hall
Email: fcarrasco@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 via the internal <https://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>.

Catalog Description: Wildlife as a natural resource with emphasis on principles of conservation, ecology, and management.

Course Description: In this course, we will examine wildlife as a natural resource, with emphasis on principles of ecology, conservation, and management. The course has three integrated sections: the first part deals primarily with historical and contemporary human dimensions of wildlife ecology and management; we then move into understanding the applied aspects of ecological principles that are the foundation for wildlife management; and then examine the management of wildlife in different contexts.

Course Goal: Our goal for this course is to provide you with the knowledge and skills necessary to think and solve problems as a professional wildlife ecologist and manager. This will be demonstrated through an understanding of basic principles of wildlife ecology and management and the application of knowledge to solve wildlife conservation problems.

Course Objectives: The course has several primary objectives related to the course goal.

Specific objectives are for you to:

- 1) Identify historical and contemporary people and events that have shaped wildlife ecology and management
- 2) Learn and explain wildlife ecology and management terms and definitions
- 3) Debate a range of positions related to the history, policies, laws, values, ethics, and philosophy of wildlife management
- 4) Critically evaluate a variety of wildlife ecology and management principles, practices, and issues
- 5) Prescribe programs for the management of wildlife
- 6) Develop critical thinking and communication skills relevant to the ecology and management of wildlife

Prerequisite Courses: Integrated Principles of Biology I & II and associated labs (BSC 2010, 2010L, 2011, & 2011L), equivalent courses, or Instructor permission.

Online: Students may participate in the lecture portion of the course in real time online at <http://ufifas.adobeconnect.com/wis3401/>. 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: Leopold, A. 1968. A Sand County Almanac and Sketches Here and There. Oxford University Press, New York, NY.

Readings & Videos: Copies of readings and videos will be available online or through the course website (see below). Readings and videos, in addition to the textbook, must be reviewed prior to the appropriate class. Readings and videos are referenced in class in appropriate PowerPoint presentations (red text). Readings and videos reinforce concepts discussed in lecture, complement lectures and provide additional new information, and expose students to various scientific journals and publications.

Course Materials: The course syllabus and lecture outlines 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>), MS Word, and/or MS PowerPoint to access and print.

Learning Tools: Study guides and other materials to aid you in learning and developing the knowledge and skills described in the Course Goal and Objectives are available on the course website as Sample Exam Questions and Study Questions.

Evaluation: To assess how well we achieve course goals and objectives and allow you to demonstrate your knowledge and skills in the principles of wildlife ecology and management and their application in solving wildlife conservation problems, we have developed several evaluation instruments (i.e., exams).

Grading:	Exam 1: Human Dimensions (covers only this section; 100 questions/75 minutes)	200 pts
	Exam 2: Applied Ecology (covers only this section; 100 questions/75 minutes)	200 pts
	A Sand County Almanac Assessment (covers only the textbook; 100 questions/75 minutes)	200 pts
	Exam 3: Management (covers only this section; 100 questions/75 minutes)	200 pts
	Final Exam: Comprehensive (covers the entire course/semester; 100 questions/75 minutes)	200 pts
	Total	1000 pts

Grades: A (≥ 900 pts; $\geq 90.0\%$), B (800-899 pts; 80.0%-89.9%), C (700-799 pts; 70.0%-79.9%), D (600-699 pts; 60.0%-69.9%), & E (≤ 599 pts; $\leq 59.9\%$).

Grading Policy: If there is a grading error on any exam, see me immediately so I can correct your score/points. Exams will not be given back/released, but can be reviewed in the Instructor's office (by phone for students who are off main campus). Please regularly check your grades on the course website, and notify me immediately if a grade is incorrectly recorded. Requirements for class attendance and make-up exams, assignments, and other work in this course are described below, and are consistent with university policies that can be found at <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>. For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Exams 1, 2, & 3: All Exams will consist of a combination of multiple-choice (multiple correct answers possible with all needing to be selected for full credit) and true/false questions that will allow you to demonstrate your knowledge and ability to synthesize, integrate, and apply knowledge and skills. Exams 1, 2, and 3 are not comprehensive (i.e., they will only cover the material in that section: Human Dimensions, Applied Ecology, and Management). 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 readings (including the internet), videos, lectures, and discussions. 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 <https://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. All exams are online at <https://elearning.ufl.edu/>. Questions for each exam will be randomly drawn from a question pool. Each exam is time limited. You must go online to <https://elearning.ufl.edu/> and complete the **Practice Exam** by 11:45 a.m., 17 January 2017. Failure to

complete this by this time/date will result in the loss of 10 points from the final course grade. If you have problems completing the practice exam, notify me immediately.

A Sand County Almanac Assessment: The Assessment will consist of a combination of multiple-choice (multiple correct answers possible with all needing to be selected for full credit) and true/false questions that will allow you to demonstrate your knowledge of A Sand County Almanac by Aldo Leopold (i.e., the textbook). If you do not complete the Assessment during the assigned period, you will receive a grade of zero (0). Make-up Assessments 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). The Assessment is closed book; books, notes, papers, computers (except the one a student is working on to access <https://elearning.ufl.edu/>), other electronic devices, headphones, earpieces, and other listening devices are not permitted to be used or in sight during the Assessment, and students must work alone. Assessments are online at <https://elearning.ufl.edu/>. Questions for the Assessment will be randomly drawn from a question pool. The Assessment is time limited. You must go online to <https://elearning.ufl.edu/> and complete the **Practice Exam** by 11:45 a.m., 17 January 2017. Failure to complete this by this time/date will result in the loss of 10 points from the final course grade. If you have problems completing the practice exam, notify me immediately.

Final Exam: The Final Exam will consist of a combination of multiple-choice (multiple correct answers possible with all needing to be selected for full credit) and true/false questions that will allow you to demonstrate your knowledge and ability to synthesize, integrate, and apply knowledge and skills. The Final Exam will be comprehensive, and include questions on all course material, including but not limited to Exams 1, 2, 3, and the A Sand County Almanac Assessment. If you do not complete the exam during the assigned period, you will receive a grade of zero (0) for that exam. A make-up exam 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 readings (including the internet), videos, lectures, and discussions. A review session will be scheduled before the exam. The Final Exam is closed book; books, notes, papers, computers (except the one a student is working on to access <https://elearning.ufl.edu/>), other electronic devices, headphones, earpieces, and other listening devices are not permitted to be used or in sight during the exam, and students must work alone. The exam is online at <https://elearning.ufl.edu/>. Questions for the exam will be randomly drawn from a question pool. The exam is time limited. You must go online to <https://elearning.ufl.edu/> and complete the Practice Exam by 11:45 a.m., 17 January 2017. Failure to complete this by this time/date will result in the loss of 10 points from the final course grade. If you have problems completing the practice exam, notify me immediately.

Class Attendance & Demeanor: Class attendance is not recorded or graded. However, you are expected to take part in every class. 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: <https://elearning.ufl.edu/> contains the course website, testing 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 Assessment. Completing the Practice Exam will allow you to assess your computer and internet connections. Working on campus computers and networks may be helpful. Unless the entire <https://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 or the Assessment.

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
1/5	What is Wildlife Ecology? Management? Conservation?	1
1/10	History of Wildlife Management	2
1/12	History of Wildlife Management	3
1/17	Policy & Law Practice Exam (before 11:45 a.m., https://elearning.ufl.edu/)	4
1/19	Values & Ethics	5
1/24	Population Ecology: the Basics	6
1/25	Exam 1: Human Dimensions (any 75 minute block, 4:00-11:00 p.m., https://elearning.ufl.edu/; exam covers What is Wildlife Ecology? Management? Conservation through Values & Ethics)	
1/26	Food, Water, & Nutrition Cover	7
1/31	Movements & Space Use	8
2/2	Movements & Space Use	9
2/7	Reproductive Ecology	10
2/9	Mortality Factors	11
2/14	Mortality Factors	12
2/16	Harvest	13
2/21	Harvest	14
2/23	Habitat Relationships	15
2/28	Habitat Relationships	16
3/2	Population Ecology: Revisited	17
3/7	Spring Break – No Class	
3/9	Spring Break – No Class	
3/14	Wildlife & Agriculture	18
3/15	Exam 2: Applied Ecology (any 75 minute block, 4:00-11:00 p.m., https://elearning.ufl.edu/; exam covers Population Ecology: the Basics through Population Ecology: Revisited)	
3/16	Wildlife & Rangelands	19
3/21	Wildlife & Rangelands	20
3/23	Wildlife & Forests	21
3/28	Wildlife & Forests A Sand County Almanac	22
3/30	Public Lands Wildlife Management	23
4/4	Urban & Suburban Wildlife & Management	24
4/5	A Sand County Almanac Assessment (any 75 minute block, 4:00-11:00 p.m., https://elearning.ufl.edu/; exam covers Leopold, A. 1968. A Sand County Almanac and Sketches Here and There)	
4/6	Wetland Wildlife & Management Coastal & Island Wildlife & Management	25
4/11	Translocated Wildlife & Management	26
4/13	Rare, Threatened, & Endangered Wildlife & Management	27
4/18	Leopold's Ideas: Then & Now	28
4/19	Exam 3: Management (any 75 minute block, 4:00-11:00 p.m., https://elearning.ufl.edu/; exam covers Wildlife & Agriculture through Rare, Threatened, & Endangered Wildlife & Management)	
4/20	Reading Day – No Class	
4/27	Final Exam: Comprehensive (any 75 minute block, 7:00 a.m.-11:00 p.m., https://elearning.ufl.edu/; exam covers What is wildlife ecology? Management? Conservation through Leopold's Ideas: Then and Now, and A Sand County Almanac)	

Note: Topics will be covered in the order indicated. However, the time allotted to each topic may vary.

#	Readings & Videos (available through the course website)
1	North American Model for Wildlife Conservation. RMEF & Conservation Visions. 2006. (video)
2	
3	Aldo Leopold. The Aldo Leopold Foundation.
4	Organ, J.F., et al. 2010. Born in the hands of hunters: the North American Model of wildlife Conservation. <i>The Wildlife Professional</i> 4:22-27. Leopold, A., et al. 1930. Report to the American Game Conference on an American game policy. <i>Transactions of the American Game Conference</i> 17:284-309.
5	Leopold's Land Ethic. The Aldo Leopold Foundation. Kellert, S.R. 1976. Perceptions of animals in American Society. <i>Transactions of the North American Wildlife and Natural Resources Conference</i> 41:533-546. MacCleery, D.W. 2000. Aldo Leopold's land ethic: is it only half a loaf? <i>Journal of Forestry</i> 98(October):5-7.
6	Edwards, R.Y., and C.D. Fowle. 1955. The concept of carrying capacity. <i>Transactions of the North American Wildlife and Natural Resources Conference</i> 20:589-602.
7	Mills, M.G.L. 1991. Conservation management of large carnivores in Africa. <i>KOEDOE</i> 34: 81-91. Weckel, M., et al. 2006. Jaguar feeding ecology: the distribution of predator and prey through time and space. <i>Journal of Zoology</i> 270:25-30.
8	Van Aarde, R.J., et al. 2006. Conservation science and elephant management in southern Africa. <i>South African Journal of Science</i> 102:385-388.
9	Burt, W.H. 1943. Territoriality and home range concepts as applied to mammals. <i>Journal of Mammalogy</i> 24:346-352.
10	
11	Rollins, D., and J.P. Carroll. 2001. Impacts of predation on northern bobwhite and scaled quail. <i>Wildlife Society Bulletin</i> 29:39-51.
12	Henke, S.E., and F.C. Bryant. 1999. Effects of coyote removal on the faunal community in western Texas. <i>Journal of Wildlife Management</i> 63:1066-1081.
13	
14	
15	Hall, L.S., et al. 1997. The habitat concept and a plea for standard terminology. <i>Wildlife Society Bulletin</i> 25:173-182. Van Horne, B. 1983. Density as a misleading indicator of habitat quality. <i>Journal of Wildlife Management</i> 47:893-901.
16	Hartup, B.K. 1994. Community conservation in Belize: demography, resource use, and attitudes of participating landowners. <i>Biological Conservation</i> 69:235-241.
17	
18	Maitima, J.M., et al. 2009. The linkages between land use change, land degradation and biodiversity across East Africa. <i>African Journal of Environmental Science and Technology</i> 3:310-325.
19	Kalmbacher, R.S. 2005. Managing south Florida range for cattle.
20	
21	Frumhoff, P.C. 1995. Conserving wildlife in tropical forests managed for timber. <i>BioScience</i> 7:456-464.
22	Leopold, A. 1968. <i>A Sand County Almanac and Sketches Here and There</i> . (Textbook; not on the course website)
23	Leopold, A. 1925. Wilderness as a form of land use. <i>Journal of Land and Public Utility Economics</i> 1:398-402.
24	McKinney, M.L. 2002. Urbanization, biodiversity, and conservation. <i>BioScience</i> 52:883-890.
25	
26	
27	Hoffmann, M., et al. 2010. The impact of conservation on the status of the world's vertebrates. <i>Science</i> 330:1503-1509. USFWS. 2013. <i>ESA Basics</i> .
28	