PRINCIPLES OF WILDLIFE ECOLOGY AND MANAGEMENT
NREM 3503 – FALL 2013

Instructor: Dr. W. Sue Fairbanks
564 Ag Hall
Phone: 744-9842
e-mail: sue.fairbanks@okstate.edu

Lecture: MWF – 12:30-1:20 am; Rm 320 Ag Hall

Office Hours: M – 11:00-Noon; T – 9:00-10:30 am; W – 9:00-9:50 am;

Publisher: Prentice Hall.

Course Description: An introduction to the biological basis of the management of wildlife
habitats and populations, and to the policies and human dimensions of wildlife management.
The course will consist of a mixture of lectures, in-class activities and assignments, and
guest speakers. Assessment will be on the basis of quizzes, exams, individual assignments,
and group assignments.

Goals:
I expect this course to:
1) Provide each student with a knowledge base on which to build in upper division
classes in natural resources in general, or in wildlife ecology and management,
specifically.
2) Provide experience working individually and in groups to analyze and critically think
about issues in wildlife conservation and management.
3) Introduce students to professionals in wildlife and conservation agencies and non-profit
organizations.

Objectives:
By the end of the semester, students should be able to:
1) Demonstrate knowledge of general ecological principles as they relate to wildlife
populations and their habitats.
2) Integrate knowledge of wildlife biology with an awareness of divergent individual and
societal values.
3) Describe the history and general structure of wildlife management in North America.
4) Refine their own career interests in the area of natural resource management.
5) Recall the knowledge and tools needed in upper division natural resource management
and conservation courses.

Grading: There will be two lecture exams given during the semester (100 pts. each) and a
comprehensive final (150 pts.). There will be 3 assignments, 10-50 pts each, some of which
will require work outside of class. In addition there will be 3-5 brief, in-class activities that
will be worth about 5 pts each. I expect these activities to be useful learning exercises, but
they are also designed to keep students actively involved in, and coming to, class. To
facilitate using class time for active learning assignments, we will make limited use of a
flipped classroom. In other words, for a few of the lecture periods, content will be obtained on-line, outside of class, and then that information will be used during class in group assignments. This will only be arranged for a few class periods, but there will be 2-3 quizzes (10 pts each) to ensure that the material is accessed and learned before class.

Course grades will be determined as a simple percentage of total possible points. Total points for the course will be about 465-485. Not all in-class assignments will be announced ahead of time, so it will be necessary to let me know ahead of time if you are not going to be in class on a given day. If you have a valid excuse for missing class, you can make up the assignment, otherwise there will be no make-ups for assignments. Part of their purpose is to get you to come to class and participate. Make-up exams will only be given if you provide a valid excuse before the exam. There will be NO extra credit in the class – DON’T ASK!

The following *percentages* will be the basis for assigning grades.

- 90-100 = A
- 80-89 = B
- 70-79 = C
- 60-69 = D
- < 60 = F

**Academic Integrity Policy:** “Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript (F!), and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, academicintegrity.okstate.edu.”

**Academic Calendar, Academic Integrity, Final Exam Policies, etc:**
[http://academicaffairs.okstate.edu/faculty-a-staff](http://academicaffairs.okstate.edu/faculty-a-staff)

**Additional Accommodations:** If you have a documented disability that requires accommodation, you should contact me privately at the beginning of the semester to discuss your specific needs. You will also need to go to Student Disability Services (315 Student Union) for coordination of your academic accommodations.
## COURSE SCHEDULE

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<th>Topic</th>
<th>Chapts. in Text</th>
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<td>Ch 1</td>
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<td>North American Model of Wildlife Management</td>
<td>Ch 22</td>
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<td>Ecological Concepts</td>
<td>Ch 4</td>
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<td>Wildlife Habitat Needs – Food and Cover</td>
<td>Ch 7</td>
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<td>Habitat Measurement Assignment (50 pts)</td>
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<td>Wildlife Habitat Needs – Water</td>
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<td>Genetics in Wildlife Populations</td>
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<td>Hardy-Weinberg Exercise (20 pts.)</td>
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<td>Wildlife Behavior</td>
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<td>Predators and Predation</td>
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<td>Additional Management Topics</td>
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<td>Wildlife Restoration/Transplantation</td>
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<td>Controlling Overabundant Wildlife</td>
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EXAM SCHEDULE

Sept. 26 – Lecture Exam 1, during regular class period

Nov. 7 – Lecture Exam 2, during regular class period

Dec. 8 – Comprehensive Final Exam 10:00 – 11:50 am