Wildlife 350: Wildlife Management Techniques Spring 2020

TNR 354
Lecture: Tuesday 2:00- 2:50 (TNR 354)
Lab Section #1: Wednesday 12:00 – 1:50(TNR 354)
Lab Section #2: Wednesday 2:00 – 3:50(TNR 354)

Associate Lecturer: Ross McLean (TNR 301; **rmclean@uwsp.edu**)
Office hours: by appointment

Textbooks*:* Silvy, N. J., Editor. 2012. The Wildlife Techniques Manual, Vol. 1 and 2. 7th edition. The Johns Hopkins University Press, Baltimore, Maryland, USA.

Course Goal and Description*:* The overall goal of this course is for you to become familiar with a variety of techniques used by wildlife managers and researchers. Keep in mind that we will be unable to cover the full set of "tools" available in the wildlife management "toolbox." Rather, the goal is to expose you to the applications, assumptions, and limitations of many common techniques you may encounter as wildlife professionals. During the semester, we will use the lecture and laboratory periods to explore a range of field and laboratory methods. You will be required to conduct an independent research project that will entail a **significant time commitment** outside of the classroom. This is a Writing Emphasis (WE)/Communication in the Major course.

Course Learning Objectives: Specifically, the course is designed to provide students opportunities to:

1) Become familiar with a wide range of techniques and practices employed by wildlife managers and researchers;
2) Understand the assumptions and limitations behind commonly used management and research techniques;
3) Gain a better understanding of the scientific method and apply it to a real-world situation by developing and implementing a wildlife research project (a marketable skill for the future);
4) Critically read and understand scientific research papers in journals such as the Wildlife Society Bulletin;
5) Develop scientific writing skills and the ability to orally present research results.

Grading:

Assignment		**Points**
Examinations	Midterm	100
	Final	100
	Laboratory Exam	100
Research Project		
	Hypotheses	25
	Written Project Proposal	30
	Proposal Oral presentation	50
	Written Project Paper	100
	Project Oral Presentation	50
Lab Assignments & Participation		45
TOTAL		**600**

Grade	**%**	
A	93+	
A-	90-92	
B+	87-89	
B	83-86	
B-	80-82	
C+	77-79	
C	73-76	
C-	70-72	
D+	67-69	
D	60-66	
F	≤59	

Canvas: Course materials will accumulate on Canvas as the semester progresses. Check it often.

Attendance: Material and class attendance are your responsibility. Students are responsible for and may be tested on all information presented in lectures, labs, and assigned readings.

Academic Dishonesty: Trust between students and the instructor is of paramount importance in academic settings. Academic dishonesty will not be tolerated in the classroom (e.g., **cheating on exams**) or in research efforts (e.g., **plagiarism**). Therefore, do not do it.

LECTURE AND LAB SCHEDULE

DATE	TOPIC	READING
21-Jan 22-Jan	Lect: Introduction to Course; Exp Design and Stats Lab: Written communication expectations / Research Project	Chapter 1,2
28-Jan 29-Jan	Lect: Case studies in applied wildlife research Lab: Hypotheses and Research Project Development (in groups)	TBD
4-Feb 5-Feb	Lect: Sexing and Aging Birds Lab: Sexing and Aging Birds/Bird ID	Chapter 8
11-Feb 12-Feb	Lect: Sexing and Aging Mammals Lab: Sexing and Aging Mammals/Mammal ID	Chapter 8
18-Feb 19-Feb	Lect: Wildlife Capture Lab: Capture equipment and their practical applications	Chapter 3
25-Feb 26-Feb	Lect: Marking Techniques Lab: Marking Materials/Open Lab	Chapter 9
3-Mar 4-Mar	Lect: Oral communication skills **Lab: Lab practical**	TBD
10-Mar 11-Mar	Lect: Proposal Oral Presentations/Discussion Lab: Proposal Oral Presentations/Discussion	none
17-Mar 18-Mar	Lect: No Class Spring Break Lab: No Class Spring Break	
24-Mar 25-Mar	Lect: Observing Behavior Lab: Wildlife Observation surveys (on your own)	Chapter 19
31-Mar 1-Apr	Lect: Captive Propagation and Translocation Lab: Project proposal Feedback	Chapter 36
7-Apr 8-Apr	Lect: Reproduction and Sampling Lab: Nest Searching	Chapters 11, 21
14-Apr 15-Apr	Lect: Nutrition and Diet Lab: Discussion	TBD
21-Apr 22-Apr	Lect. Animal Resource Selection Lab: Resource and habitat selection (GIS-based)	Chapter 17
28-Apr 29-Apr	Lect.: Wildlife Health Lab: Necropsy	Chapter 7
5-May 6-May	Lect: Final Project Presentations Lab: Final Project Presentations	none
14-May	**Final Examination**	

Important Dates:

Hypothesis and Lit. Search	February 11th
Written proposals	February 25th
Proposal Presentation	March 10th & 11th
Take Home Midterm	March 31st
Final Project Presentation	May 5th & 6th
Project Paper	May 8th
Final Exam	May 14th 8:00-10:00