

NRM 4305
Wildlife Management Techniques
Spring 2017

Lecture Times: 9-10:50 TTh

Instructor: Dr. Ryan S. Luna
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Office: Everett E. Turner Range Animal Science Center, Room 113
Office Hours: TTh 8:00-9:00

Required Text: Silvy, N.J. (Ed.). 2012. The Wildlife Techniques Manual. seventh edition. The Wildlife Society, Bethesda, Maryland, USA.

Catalog Description: Habitat inventory and evaluation techniques, census methods; age and sex criteria; banding data analysis; research methods in wildlife management.

Course Objective: To provide the student with an understanding of the fundamental techniques used in wildlife research and management.

Grading:	20%	Research Project, Presentation, and Report	Scale: 90-100% = A 80-89% = B 70-79% = C 60-69% = D <60% = F
	10%	Attendance & Participation	
	15%	Technique Summaries (5% each)	
	10%	Lab Practical	
	15%	Lab & Lecture Assignments, Quizzes	
	10%	Exam I	
	10%	Exam II	
	10%	Exam III (Final)	

Attendance: No make-up exams will be given for unexcused absences. Notify instructor prior to excused absences. All late assignments will receive a **0**.

It is Sul Ross State University Policy to provide reasonable accommodation to students with disabilities. If you would like to request such accommodations because of physical, mental, or learning disability, please contact the ADA Coordinator for Program Accessibility in Briscoe Administration Building in Room 206 or call 432-837-8203.

NRM 4305
Wildlife Management Techniques
Tentative Schedule-Spring 2017

Dates	Week	Chapters	Subjects
1/16-20	1	NA	Course Outline, Class Introductions, Resumes
1/23-1/27	2	2	Scientific Writing, Presentations, and Wildlife Literature
1/31-2/3	3	3, 4	Scientific Method, Research Design, and Statistical Methods, Summary I Due (2/2)
2/6-2/10	4	15, 18, 20	Habitat Measurements, Maps, GPS, GIS, Remote Sensing, Literature Cited (2/9), EXAM I (2/9)
2/13-2/17	5	7, 10	Trapping, Texas Chapter of The Wildlife Society Meeting-San Antonio
2/20-2/24	6	10, 11	Chemical Immobilization
2/27-3/3	7	12, 13	Age and Sex Criteria, Marking Techniques, Summary II Due (3/4)
3/6-3/10	8	14	Radiotelemetry, First Draft of Report (3/9)
3/13-3/17	9	14, 6	SPRING BREAK
3/20-3/24	10		Population Analysis; EXAM II (3/23)
3/27-4/1	11	5, 6	Population Estimates I,
4/3-4/7	12	5, 6	Population Estimates II, Summary III Due (4/6)
4/10-4/14	13	17	Habitat and Food Use
4/17-4/21	14	21, 23, 24	Animal Behavior, Conservation Genetics, Wildlife Nutrition
4/24-4/29	15	NA	Reports Due (4/25) and Presentations (4/28)
5/1-5/5	16	NA	Lab Practical (5/2); Revised Resume and Final Review (5/4)
	-	NA	EXAM III (during scheduled final)

Research Projects: The class will be divided into groups (~4-5 students/group). Each group will be responsible for developing a research project, making a professional quality presentation, and submitting a final written report (manuscript). Each member of the group will participate in all aspects of the research project. **A literature review (n >15 sources) is due 9 February 2017. The first draft of the intro, study area, and methods is due 9 March 2017 (revision will be due within a week of being returned). The final draft of the manuscript is due 25 April 2017.** Style of plans should follow the Journal of Wildlife Management. The manuscript should be ≥8 pages, 12 pt., double-spaced, and with ≥20 citations (no WWW citations), and include at least 1 figure and 1 table in the appropriate style. An electronic copy should be provided with the manuscript. Data collection should begin as early as possible.

Presentations: The presentation will be of professional quality, should be 15 minutes (12 min presentation, 3 min questions), and will be given to NRM faculty, TPWD staff, and students. Attire should be appropriate for a professional meeting.

Rough Outline for Manuscript:

Abstract

Introduction (not labeled as such)

Justification & Objectives

Study Area

Land use--a history of the area

Location--size, ecoregion, ...

Description--soils, topography, cover types, fauna...

Methods

Specific to the objectives

Results

Tables and figures referenced and cited

Discussion

Assumptions

Compare your results to previous literature

Conclusion

What does it all mean? Mention future research or management

Literature Cited

Assistance: I and your TA will be happy to review your progress on the project. In addition, the Writing Lab, located MAB 102, is open from 9-5 M-F. This lab is geared toward helping students write papers.

Tentative Subjects:

Scaled quail (population estimation, movements, loafing and roosting habitat)

Urban deer project (density, capture techniques, survival, movements)

Montezuma quail capture techniques, others???

NRM 4305-LAB
Wildlife Management Techniques
Tentative Schedule-Spring 2017

Dates	Week	Subjects
1/16-20	1	No Lab
1/23-1/27	2	Research Projects
1/31-2/3	3	Trapping
2/6-2/10	4	OPEN
2/13-2/17	5	Compass, Maps, and Surveying; GPS, GIS, Remote Sensing, Habitat Measurements
2/20-2/24	6	Chemical Immobilization, Marking Techniques; Texas Chapter of The Wildlife Society Meeting-San Antonio
2/27-3/3	7	Age and Sex Criteria
3/6-3/10	8	SPRING BREAK
3/13-3/17	9	Radiotelemetry
3/20-3/24	10	Radiotelemetry, Home Range, Movements in GIS
3/27-4/1	11	Population Estimates
4/3-4/7	12	Population Estimates
4/10-4/14	13	Habitat and Food Use
4/17-4/21	14	Research Projects
4/24-4/29	15	Review (4/28)
5/1-5/5	16	Lab Practical (5/2)