COURSE SYLLABUS

REWM 5830 – Wildlife Habitat Ecology Spring Semester 2011

W 3:10 to 5:00 PM - AN 220

Instructor Information:

Instructor: Jeffrey L. Beck Phone: (307)-766-6683 Office: Ag 2005

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Office Hours: W 1:00–3:00 PM or by appointment

Prerequisites:

STAT 2050 (or equivalent) and graduate status or instructor consent.

Course Description:

Wildlife Habitat Ecology is a graduate-level course for students in animal ecology, wildlife science, or rangeland ecology emphasizing the relationships between wildlife populations and their habitats. Emphasis on concepts forming the basis of wildlife habitat ecology including habitat and niche, carrying capacity, habitat measurements, resource selection, habitat–relationships modeling, habitat management, and habitat restoration. The course is designed as a readings course, where we will discuss relevant literature to broaden and refine our perspectives on concepts and current issues in wildlife habitat ecology. Consequently, students will be expected to prepare and present topical discussions to other class members

Disability Statement:

If you have a physical, learning, sensory or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with, and provide documentation of your disability to University Disability Support Services (UDSS) in SEO, room 109 Knight Hall.

Objectives/Outcomes/Standards:

Course Objectives

- 1. To gain an understanding of the central concepts and theory framing wildlife habitat ecology
- 2. To become familiar with quantitative approaches to estimating and modeling habitat selection, suitability, and wildlife–habitat relationships
- 3. To encourage an interest in further learning about wildlife habitat ecology

Student Responsibilities

- 1. Participate fully in all class discussions
- 2. Read assigned material before class and prepare insightful presentations

Classroom Policies

- 1. Students are expected to: be on time, read literature before class, and participate in discussions
- 2. Academic honesty and integrity are University Policies. Failure to maintain these standards may result in a failing grade and/or referral to the Dean of students
- 3. Derogatory language or behavior based on race, gender, religion, political affiliation, sexual orientation, or physical or mental abilities is not appropriate for class

Text(s) and Readings:

Required Textbook

Morrison, M. L., B. G. Marcot, and R. W. Mannan. 2006. Wildlife-habitat relationships: concepts and applications. Third edition. Island Press, Washington, D.C., USA.

Additional Readings

A readings list consisting of journal articles, book chapters, and other sources will be generated as the semester progresses.

Course Requirements/Assignments: *Grading Standards*

Grades will be assigned on the basis of percentage of total points earned.

A = >90%

B = 80 - 89%

C = 70 - 79%

D = 60-69%

F = <59 %

Assignments

Assignment	Number	Point Value	Total Points
Two-page literature summaries	2	50	100
50-minute class discussions	2	75	150
Mid-term exam (take home)	1	100	100
Final exam (oral)	1	100	100
Participation (semester)		50	50
Total			500

Late Assignments

Because we will be depending on each other to provide weekly literature summaries and presentations there is no policy on late assignments. However, I will make accommodations for valid emergencies.

Attendance/Participation Policy:

- 1. Absences result in poor performance on assignments and exams, so please attend each class
- 2. University sponsored absences are cleared through the Office of Student Life
- 3. Other absences must be cleared through me

Academic Honesty:

The University of Wyoming is built upon a strong foundation of integrity, respect and trust. All members of the university community have a responsibility to be honest and the right to expect honesty from others. Any form of academic dishonesty is unacceptable to our community and will not be tolerated [from the UW General Bulletin]. Teachers and students should report suspected violations of standards of academic honesty to the instructor, department head, or dean. Other University regulations can be found at: http://uwadmnweb.uwyo.edu/legal/universityregulations.htm)

Tentative Guest Speaker Schedule:

Date	Speaker	Affiliation	Topic
Feb 16	Jennifer Hess and Chris Kirol	UW – Renewable Resources	Quantifying resource selection
Mar 9	Dr. Liz Flaherty	UW – Zoology and Physiology	Effects of habitat fragmentation
Mar 30	Clay Buchanan	UW – Renewable Resources	Disturbance risk
Apr 20	Dr. Matt Kauffman	UW – Zoology and Physiology	Trophic cascades

Course Outline:

Preliminary Schedule				
Week	Topic	Assignment*		
1 (Jan 12)	Introductions and assignments	Chapter 1		
2 (Jan 19)	Habitat fundamentals (habitat and niche)	Chapters 2 and 3		
3 (Jan 26)	Describing habitats (ESDs, habitat types, etc.)			
4 (Feb 2)	Habitat selection terminology and designs	Chapter 4		
5 (Feb 9)	SRM Meeting in Billings, Montana – No Class			
6 (Feb 16)**	Quantifying resource selection	Chapters 5 and 6		
7 (Feb 23)	The landscape perspective of habitats (including migration)	Chapters 8 and 9		
8 (Mar 2)	Habitat heterogeneity (edge effects, ecological traps, etc.)	Chapters 8 and 9		
9 (Mar 9)**	Habitat fragmentation, loss, degradation	Midterm Exam		
10 (Mar 16)	Spring Break – No Class			
11 (Mar 23)	Wildlife habitat-relationships modeling	Chapter 10		
12 (Mar 30)**	Wildlife response to disturbance risk			
13 (Apr 6)	Linking habitat selection to fitness and demography			
14 (Apr 13)	Animal alteration of habitats (damage and ecological engineers)			
15 (Apr 20)**	Wildlife habitat issues relative to trophic cascades			
16 (Apr 27)	Wildlife habitat restoration ecology			
17 (May 4)	Final Exam – Wednesday, May 4 (3:30–5:30 PM)	Final Exam		

^{*}Suggested reading assignments from Morrison et al. (2006). Other readings to be assigned.

^{**}Guest speaker.