

## Course Syllabus

### Wildlife 334/534 – Ungulate Ecology, Spring 2019

*Instructor - Dr. Scott Hygnstrom, [shygnstr@uwsp.edu](mailto:shygnstr@uwsp.edu), 715.346.2301*  
*Class times - 8:00 - 8:50 am, Tuesdays and Thursdays; TNR 354*  
*Lab times - 10:00 - 11:50 am, Fridays; TNR 354 or arranged*  
*Office hours - 9:00 - 11:00 am Thursdays and 12:00 - 1:30 pm Fridays; TNR 346*  
*Please see me after class or make an appointment by email*

#### Critical Resources

##### Online Content

*D2L>>>WLDL 334/534 Ungulate Ecology>>>*

*News* Check weekly for the latest postings on readings, assignments, and exams.  
Also look in your email inbox for readings and assignments.

*Content tab>>>Table of Contents>>>*

*Overview* Includes learning objectives for the course

*Course Schedule* See Course Syllabus. Review regularly for content and schedule

*Course Administration>>>Course Syllabus*

*Exams* Online exams will be posted in this section

*Lecture Materials* Includes PowerPoint (PPT) files and Study Guides (SGs)

Biology and Ecology (10)

Species Accounts (14)

Management (7)

*Discussion Materials* - additional materials for consideration

##### Textbook (rental)

Demarias and Krausman, eds. (2000) *Ecology and Management of Large Mammals in North America*, Prentice-Hall. Skim this reference for detailed information and clarification of concepts presented online and in class. I will periodically assign required readings from other sources.

#### Learning Outcomes

Students successfully completing this course will be able to:

- a) Describe the evolutionary origins and systematics of ungulates.
- b) Understand the role of body size as a central feature of ungulate biology and ecology.
- c) Describe the morphological and physiological adaptations of ungulates relative to food acquisition, predator avoidance, and social behavior.
- d) Describe the competitive interactions (both intraspecific and interspecific) and predator-prey relationships of ungulates.
- f) Identify all North American ungulates and other selected species.
- g) Critically evaluate diverse sources of information about ungulates.
- h) Understand and appreciate diverse viewpoints regarding ungulate conservation and management, especially in Wisconsin and North America.

#### Course Format

WLDL 334/534 is a hybridized course that engages several sources of information and teaching approaches, including online content, in-class discussions, hands-on labs, and occasional guest speakers. You will review assigned PPT files, Study Guides, and readings for the week on your own before coming to class on Thursdays. Quizzes will be administered at the beginning of the hour on Thursdays, followed by student-led discussions of current events and the assigned materials. Fridays will continue with discussions, hands-on labs, and exam reviews when appropriate. In-class participation will be an important component of this course, as all will benefit from external information, experiences, and varying points of view.

## Student Assessment

**Quizzes** – worth 10 points, each will be administered at the beginning of the hour on Thursdays. Each will address materials provided in the associated PPT and SG files that are provided on D2L.

**Written Reviews** – The Wisconsin Chapter of The Wildlife Society will be hosting its Annual Meeting at the Stony Creek Inn in Rothschild, WI on February 12-14, 2019. Since many students and I will be participating, no class will be held during that week. In lieu of study materials and a quiz, students who participate are encouraged to sit in on two presentations during the Ungulate Session at 9 am on Wednesday. They will write a 1-page review of each presentation. Students who cannot participate are assigned to read two papers on ungulates in the Journal of Wildlife Management and write a 1-page review of each paper. See the grading rubric below for expected content and details for the reviews. Written reviews are due at 5:00 pm on Friday, February 17, 2019.

**Exams** – two take-home Mid-term Exams and one Final Exam will be issued online during class. All exams are open book, open notes, open everything. I encourage you to work together to come up with answers to exam questions. For essay questions, however, I expect you to write your own answers. No cut and paste responses from a half-dozen students.

**Final grades** - will be assigned based on points accumulated from a combination of evaluations, including:

13 Quizzes (10 points each, offered at the beginning of each class on Thursdays)

2 Written Reviews (5 points each)

2 Mid-term Exams (100 points each, take-home)

1 Final Exam (100 points plus 50 points comprehensive, take-home)

Final grades will be roughly based on the following points distribution:

≥93%	A	80-82%	B-	67-69%	D+
90-92%	A-	77-79%	C+	64-66%	D
87-89%	B+	73-76%	C	<63%	F
83-86%	B	70-72%	C-		

## Academic Dishonesty and Late Work Policy

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 quizzes and exams) or in assignments (e.g., plagiarism). Academic dishonesty will be dealt with to the fullest extent that University policy permits. **All late work, including exams, will lose a full letter grade for every 24 hours after the designated deadline.**

## Important Dates

The last day to add/drop without a grade is January 31, 2019. The last day to drop with a “W” is April 5, 2019.

## In the Event of an Emergency

**Medical emergency** - call 911 or use the red emergency phone located in the lobby outside TNR 170. Offer assistance if trained and willing to do so. Guide emergency responders to the victim.

**Tornado warning** - Avoid wide-span rooms and buildings. TNR 170 is an approved tornado shelter. See [www.uwsp.edu/rmgt/Pages/em/procedures/other/floor-plans](http://www.uwsp.edu/rmgt/Pages/em/procedures/other/floor-plans) for floor plans showing severe weather shelters on campus.

**Active Shooter** – Run, Hide, Fight. If trapped, lock doors and hide, turn off lights, spread out and remain quiet. Follow instructions of emergency responders.

**Fire or other emergency requiring evacuation** -

1. Pull a fire alarm and leave the building using the stairs and closest exit. Do not use the elevator.
2. Gather all classmates in the sundial South of TNR. Dial **911** and call Protective Services at **715-346-3456** with information about the emergency and its location.
3. Ensure you are accounted for by your Faculty. Follow directions of fire, police, and Protective Services. Advise responding emergency personnel if anyone requires medical treatment. Expanded evacuation may be required depending on the hazards present.

See the UW-Stevens Point Emergency Management Plan at [www.uwsp.edu/rmgt](http://www.uwsp.edu/rmgt) for details on all emergency responses at UW-Stevens Point.

## Course Schedule

Week of...	Topic	Viewing/Reading Assignments
<b>Section I - Basic Biology and Ecology of Ungulates</b>		
Jan 22	T	Course Introduction
	Th	Evolution and Diversity
	F	Nutritional Concepts
		Morphology for Herbivory
		LAB – Tooth Eruption/Wear
Jan 31		Digestion and Rumination
	Th	Physiological Ecology
	F	LAB - Rumen Dissection
Feb 7		Behavioral Ecology
	Th	Sexual Segregation
	F	LAB- Camera traps, Scoring
Feb 14		Local Ungulate Research
	Th	No class
	F	No class
		<b>Written Reviews due 5:00 pm Feb 17</b>
Feb 21		Population Ecology
	Th	Community Ecology
	F	DISC-Predator-prey Ecology <b>Mid-term I Review</b>
		<b>Mid-term Exam I due 12:00 Midnight, Feb 26</b>
<b>Section II – Species Accounts of North American Ungulates</b>		
Feb 28		White-tailed Deer
	Th	Human Dimensions
	F	DISC-Management, DMAP
Mar 7		CLFT
	Th	No Class
	F	No Class
Mar 14		Elk
	Th	Human Dimensions
	F	DISC-Management, CL, BRFA
Mar 21		Spring Break
	Th	No Class
	F	No Class
Mar 28		Mule Deer, Black-tailed Deer
	Th	Moose, Caribou, Muskox
	F	DISC-Species Preservation
Apr 4		Pronghorn, Bison
	Th	Mtn Goat, NA Sheep
	F	DISC-Economics
Apr 11		Collared Peccary, Wild Pigs
	Th	Wild Horses, Burros
	F	DISC-Invasive Species <b>Mid-term II Review</b>
		<b>Mid-term Exam II due 12:00 Midnight, Apr 16</b>

<b>Section III- Management of North American Ungulates</b>		
Apr 18	Population Ecology	Ppt, SG
Th	Population Monitoring	Ppt, SG, <b>Q10</b>
F	LAB-Harvest Management	
Apr 25	NA Model Wildlife Conservation	Ppt, SG, Ch 15
Th	WI Deer Hunting Traditions	Ppt, SG, <b>Q11</b>
F	LAB-Firearm Safety	
May 2	Resolving Ungulate Conflicts	Ppt, SG
Th	White-tailed Deer	Ppt, SG, <b>Q12</b>
F	LAB- Tools and Techniques	
May 9	Ungulate Diseases	Ppt, SG
Th	White-tailed Deer, CWD	Ppt, SG, <b>Q13</b>
F	LAB-Necropsy	<b>Final Exam Review</b>
May 16	Finals week	<b>Final Exam</b> <b>Due 4:45 pm, May 16</b>

**Written Review Grading Rubric**

**Scientific presentation (WCTWS) or paper (JWM) on ungulate ecology.**

<b>Responsibility</b>	<b>None</b>	<b>Incomplete</b>	<b>Complete</b>
Title	None (0)	Incomplete (0)	Complete (0.5)
Presenter/Authors	None (0)	Incomplete (0)	Complete (0.5)
Objectives of presentation/papers	None (0)	Incomplete (0.5)	Complete (1.0)
Critical evaluation of methods	None (0)	Incomplete review of procedures used to achieve objectives (0.5)	Thoughtful review of procedures used to achieve objectives (1.0)
Critical evaluation of results and discussion	None (0)	Incomplete review of analysis and interpretation of data (1.0)	Incomplete review of analysis and interpretation of data (2.0)