UNIVERSITY OF MARYLAND

Urban Wildlife Management

ENST 461, 3 credits, Section 0101

Fall Semester 2016

Instructor: Shannon Pederson, Associate Wildlife Biologist®

Class Meeting: M/W/F 12-12:50pm

Room: ANS 0422

Office Hours: By Appointment on M, W, or F 11am-12pm ANS 1457

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Phone: 301-405-1193

Required Text: Urban Wildlife Management. 2nd edition. Clark Adams and Kieran Lindsey. CRC Press.

Other Readings: Additional papers assigned in class will be available through ELMS.

Other Needs: Metro Fare \$20 (for Urban Walk in Washington, DC and visiting one Urban Park)

Course Description: This course focuses on ecology and management of wildlife in urban and urbanizing areas. It includes game species, nongame species, and primary emphasis is placed on terrestrial species. Although many of the same species found in rural habitats can inhabit the urban environment, different management approaches are needed in the complex urban environment with dense human populations and small land units with multiple ownerships. We will investigate the ecology of the urban environment and examine the unique nature of managing wildlife biodiversity in such urban ecosystems, along with human interest and its role in supporting wildlife in their neighborhoods. The course is geared toward students interested in the human- wildlife relationship in the metropolitan environment and provides a foundation for management in these unique ecosystems.

Course Objectives: 1) Ability to apply ecological and behavioral concepts and principles to the management of wildlife populations in urban and suburban areas to achieve a diversity of objectives, including control, conservation, and restoration. 2) Students will develop a general understanding of the assumptions, effectiveness, and limitations of strategies used to manage wild populations in urban areas. Students will

develop analytical problem-solving skills and will gain experience in habitat evaluation and management plan development for wildlife species in urban areas. 3) Students will develop a general appreciation for the challenges and opportunities inherent in wildlife conservation and management in urban areas. 4) Students will develop a general appreciation for the challenges and opportunities inherent in Renewable and Non-renewable natural resources. 5) Students will learn associations between sustainability and wildlife habitats.

Grading: There will be 2 exams, video, poster, presentation, and approximately weekly quizzes or homework assignments. The exams test your comprehensive knowledge of the subject matter. The projects test your ability to gather and synthesize academic material and present that material in a well-written coherent manner, and the weekly quizzes help you to identify salient points and encourage participation.

Extra Credit: There will be several opportunities for extra credit, in the form of attending a professional talk and writing a 1-page summary, participating in morning bird walks through UMD's Student Chapter of The Wildlife Society, and occasional research projects. Only talks/activities that I announce in class or on ELMS will be considered for extra credit. Summaries are due within 1 week.

Evaluation and Grades:

Exam #1: 15 points

Exam #2: 15 points

Class Homework, Activities, Quizzes: 15 points

Species flyer & bookmark: 10 points

Group Park Video: 15 points

Group Walk Poster: 10 points

City Evaluation Presentation: 10 points

Peer evaluations: 10 points

Total: 100 points

Courses will be graded with plus and minus grades under the following scale: A + = 4.0 = 97 - 100 A = 4.0 = 94 - 96 A - = 3.7 = 90 - 93 B + = 3.3 = 86 - 89 B = 3.0 = 83 - 85 B - = 2.7 = 80 - 82 C + = 2.3 = 76 - 79 C = 2.0 = 73 - 75 C - = 1.7 = 70 - 72 D + = 1.3 = 66 - 69 D = 1.0 = 63 - 65 D - = 0.7 = 60 - 62 F = 0.0 = <math>4.0 = 4.0 = 4.0 = 97 - 100 A = 4.0 = 94 - 96 A - = 3.7 = 90 - 93 B + = 3.3 = 86 - 85 B - = 2.7 = 80 - 82 C + = 2.3 = 76 - 79 C = 2.0 = 73 - 75 C - = 1.7 = 70 - 72 D + = 1.3 = 66 - 69 D = 1.0 = 63 - 65 D - = 0.7 = 60 - 62 F = 0.0 = 4.0

Park Options:

Greenbelt Park, Lake Anacostia, Park Rock Creek Park, Dumbarton Oaks Park, Malcolm X Park, Fort Reno Park, Gravelly Point Park, Montrose Park, Kalorama Park, Fort Bunker Hill Park, Baynard Hill Park, Wheaton Regional Park, Fort Dupont Park, Fort Stanton Park, Battery Kemble Park, Kenilworth Aquatic Gardens, National Arboretum, Sligo Creek

Urban Species Options: Textbook Page 61

Schedule:

Week	Dates	Topic	Reading	Assignment	Objective
	8/29,			Submit	
	8/31,	Introductions,		Google Doc	Learn about fellow students, learn about
1	9/2	Definitions	Chapter 1	(homework)	urbanization, learn about UWM history
				<mark>Your</mark>	
		Ecological		Ecological	Learn about ecology, sustainability,
		Principles,	ELMS reading, Chapter 3,	Footprint	biodiversity, economical impact on
2	9/7, 9/9	Economics	Chapter 6	(homework)	wildlife; make groups of 4
	9/12,			Groups	
	9/14,			Vote on	Learn impact of urbanization on soil and
3	9/16	Soil, Water	Chapters 4 & 5	Park	water
				Individuals	
	9/19,			Vote on an	
	9/21,			Urban	Learn how ecological processes are
4	9/23	Gray areas	Chapter 8	Species	impacted by the built environment
	9/26,			-	
	9/28,				Learn how green spaces can be
5	9/30	Green areas	Chapter 7	Exam #1	incorporated in urban design
	·			Submit list	
				of native	
				and	Learn management practices about
	10/3,			invasive	addressing urban management techniques
	10/5,			species	to improve wildlife habitat, Identify
6	10/7	BMPs	ELMS Readings	(homework)	invasive species

	10/11,				
	10/12,	Renewable	FLAG Deadings	Campus	Learn about renewable energy sources and
7	10/14	Energy	ELMS Readings	walk	how they impact wildlife
				Submit	
				bookmark	
				& flyer	
	10/17,			about an	
	10/19,	Human		urban	Learn different human perspectives,
8	10/21	Dimensions	Chapters 9 & 10	species	values, and behaviors
				Debate:	
	10/24,			Feral Cat	
	10/26,	Controversial		TNR (class	Learn natural history of urban species that
9	10/28	Species	Chapters 12 & 14	activity)	cause human-wildlife conflict
	10/31,			Submit	
	11/2,			<mark>Urban Walk</mark>	Learn about diseases spread from wildlife
10	11/4	Diseases	Chapters 13	Poster Poster	to humans and pets
	11/14,				
	11/16,				Learn how urban management techniques
11	11/18	Legal Aspects	Chapter 11	Exam #2	are affected by local laws and policies
	11/21,	2-80		Video: Park	Learn different urban designs and how
12	11/23	Design	Readings	Evaluation	they impact wildlife
	11,23	2 63.8.1	ricuani,85	Submit your	they impact whome
				ideal city	
	11/28,	Adaptive		plan	Learn processes involved in adaptive
13	11/28,	Management		(homework)	management
13		widilagement			management
	12/5,			Course &	
	12/7,	City Evaluation		Peer	
14	12/9	Presentations		Evaluation	Obtain oral presentation experience