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Course objectives:
Habitat is a central concept in the fields of wildlife ecology, conservation and management and incorporates aspects of animal behavior, community ecology and population dynamics. Ecological topics including foraging ecology, dispersal, predator-prey and plant-animal interactions, and population dynamics can be linked through the habitat selection concept. The study of wildlife-habitat relationships primarily seek to describe how the distribution and abundance of resources used for food, cover and security, and constraints on the use of these resources influence the distribution of animals. This course will cover aspects of animal behavior related to how animals select habitat, theoretical models of habitat selection, the influence of inter- and intra-specific interactions on habitat selection, and habitat quality. In addition we will discuss study designs for wildlife-habitat studies, modeling habitat selection and data analyses.

Grading
Grades will be based on attendance and participation in discussions during class, weekly writing assignments, presentation and final exam.

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<tr>
<th>Component</th>
<th>Percentage</th>
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<tr>
<td>Attendance and Participation</td>
<td>20%</td>
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<td>Weekly writing</td>
<td>20%</td>
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<td>Presentation</td>
<td>30%</td>
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<td>Final exam</td>
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Textbook:

Additional Reading:
- Additional journal articles and book chapters will be assigned.

Expectations and responsibilities of students:
1. Regular attendance in and participation in lecture is expected. The final exam will cover material from the entire course.

2. Students are expected to read the text chapters and journal articles prior to the lecture in which the topics are discussed.
Obligatory Statements:
All student enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment (see Student's Guide Handbook, Policies and Procedures, Conduct).

Plagiarism is a criminal activity. You must cite all sources of information. Copying of material, whether parts of sentences, whole sentences, paragraphs or entire articles, will result in a score of zero for your essay and can result in further disciplinary action.” Note that this is true throughout the University and we do have plagiarism-detecting software in place. Further information for avoiding this activity will be provided with your written assignments

Students with Disabilities: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact: Office of Student Disability Resources and Services, Texas A&M University-Commerce, Gee Library, Room 132, Phone (903) 886-5150 or (903) 886-5835, Fax (903) 468-8148, StudentDisabilityServices@tamu-commerce.edu
<table>
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<tr>
<th>Week</th>
<th>Topics</th>
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| 1) 1/19 | T: Introduction  
TR: Concepts of wildlife-habitat relationships  
Reading: Chapters 1-3 Morrison et al. 2006 |
| 2) 1/26 | T: Habitat selection and animal behavior  
Reading: Alcock 1984; Mayr 1974  
TR: Studies of the behavior of habitat selection  
Reading: Wecker 1963; Klopfer 1963; Tordoff et al. 1998 |
| 3) 2/2 | T: Cues for habitat selection  
Reading: Davis and Stamps 2004; Hamerstrom et al. 1973; Parejo et al. 2004  
TR: Cues for habitat selection  
Reading: Ward 2005; Hahn and Silverman 2006; Campomizzi et al. 2008 |
| 4) 2/9 | T: Competition  
Reading: Williams and Batzli 1979; Matter et al. 1989; Johnson et al. 2000  
TR: Predation  
Reading: Werner et al 1983; Mao et al. 2005; Thomson et al. 2006 |
| 5) 2/16 | T: Habitat selection and environmental scale  
Reading: Weins 1985; Orians and Wittenberger 1991  
TR: Hierarchical habitat selection and limiting factors  
Reading: Rettie and Messier 2000; Dussault et al. 2005 |
| 6) 2/23 | T: Heterogeneity  
Reading: Chapter 8 Morrison et al 2006; Kie et al. 2002; Winnie et al. 2008  
TR: Theoretical models of habitat selection  
Reading: Rosenzweig 1991; Fretwell and Lucas 1969 |
| 7) 3/2 | Sources, sinks and ecological traps  
Reading: Pulliam and Danielson 1991; Gates and Gysel 1978  
Habitat quality  
Reading: Van Horne 1983; Brown et al. 2002; Johnson 2007 |
| 8) 3/9 | TBD |
| 9) 3/16 | Spring Break |
| 10) 3/23 | T: Measurement of wildlife-habitat relationships  
Reading: Hall et al. 1997; Morrison 2001  
TR: Measurement of wildlife-habitat relationships  
Reading: Chapters 4-6 Morrison et al. 2006 |
| 11) 3/30 | T: Measurement of wildlife-habitat relationships  
Reading: Chapters 4-6 Morrison et al. 2006  
TR: Study considerations  
Reading: Beyer and Hauffer 1994; Garshelis 2000; Barry and Elith 2006 |
| 12) 4/6 | T: Study designs for habitat selection  
Reading: Alldredge and Griswold 2006; Thomas and Taylor 2006  
TR: Modeling habitat occupancy  
Reading: Mackenzie 2006; Kroll et al. 2007 |
| 13) 4/13 | T: Resource selection functions  
Reading: Johnson et al. 2006; Slauson et al. 2007  
TR: Resource utilization functions  
Reading: Marzluff et al. 2004; Millsbaugh et al. 2006 |
| 14) 4/20 | Habitat Management  
Reading: Chapter 11 Morrison et al. 2006; Klar et al. 2008 |
| 15) 4/27 | Student Presentations |
| 16) 5/4 | TBD |
| 5/11 | Finals week |