Instructor: Lisa Muller  
Office: 372 Plant Biotechnology Building  
Phone Numbers: (W) 974-7981  
(H) 980-0192  

Course Place and Times: PBB 156, PS 114 TBA  

Prerequisites: FWF 317 (Principles of Wildlife and Fisheries Management) AND EEB 250 (General Ecology)  

Objectives: This course will provide the principles and methods for identifying and solving damage problems caused by vertebrate animals. Students will acquire sufficient knowledge of the biological, regulatory, practical, and social considerations necessary for making decisions to manage wildlife damage.  

Texts:  

Guidelines for Successful Completion of this Course:  
Grades will be determined by a total of 300 possible points:  

General Report 100 points  
Mock Public Meetings 100 points each  
Comprehensive Final 100 points  

Grading:  
A 90-100%  
B+ 85-89  
B 80-84%  
C+ 75-79%  
C 70-74%  
D 60-69%  
F 0-59%
Exam Format:

Exam will be fill-in-the-blank, multiple choice, essay and short-answer questions. Exam will cover the lecture material, field trips, and assigned readings.

General Reports:

You must locate one current (no older than December 2003) news article from newspapers or magazines and write a brief report. Scientific articles or research papers are not acceptable. The news article must deal with an area of wildlife damage management. The report must be typed and be no more than 500 words in length (about two double-spaced pages, not including the Title Page). Each report must adhere to the following format:

A. Title Page: List your name, the title of the article, the author of the article (if mentioned), the source of the article (publication), and the date of publication.
B. Brief Summary: Briefly summarize and describe the news article, the issues presented, and its relevance to this course.
C. Your Opinion: Briefly evaluate and critique the article (i.e., Were there any apparent omissions from the article? Did it present a "one-sided" or a "balanced" viewpoint? What were the article's strong or weak points? What was your opinion of the article? etc.).

The written report will be graded as follows:

1. Report format, article selection, etc. 20 pts.
2. Writing, spelling, grammar, etc. 30 pts.

Public Meetings: You will be required to present 1 presentation at a mock public meeting on a wildlife damage management topic of your choice. You will give background on the species of concern, present the damage issues and give possible alternatives. You must handle questions from a wide variety of stakeholders.

Field Trips:


Deer collection/deer damage to residential areas. Need sharp knife and clothes to process deer.

Class Attendance:

Students are encouraged to attend all classes. There will be no make-up examinations without prior approval of the instructor.
Wildlife Damage Management
Course Outline and Readings (Conover 2002):

1. Introduction to wildlife damage management (Chapters 1 and 2)

2. Who is responsible for wildlife damage management?
   A. USDA Wildlife Services
   B. TWRA
   C. Private operators

3. Regulations for wildlife damage management
   A. Federal laws
   B. State laws
   C. Local laws

4. Human Dimensions (Chapter 15)
   Decision-making for wildlife damage management
   A. Societal responses to wildlife damage
   B. Differences in attitudes toward wildlife
   C. Stakeholders perceptions of wildlife damage
   D. Cultural Carrying Capacity
   E. Controversy behind management of human wildlife-conflicts

5. Economic losses and wildlife damage (Chapter 5)
   A. Economic analyses of wildlife values
   B. Why is it important to have accurate economic data about losses from wildlife damage?
   C. Economic assessment of wildlife damage

6. Public health and safety concerns
   A. Zoonotic diseases (Chapter 3)
   B. Why do animals attack people? (Chapter 3)
   B. Airline and highway safety and wildlife (Chapter 3)

7. Lethal Control (Chapter 7)
   A. Effects of lethal control on population dynamics
   B. Lethal control techniques
   C. Euthanasia guidelines

8. Fertility Control (Chapter 8)

9. Wildlife Translocation (Chapter 9)

10. Behavior modification (Chapter 10)

11. Chemical repellents (Chapter 11)

12. Diversion (Chapter 12)

13. Exclusion (Chapter 13)
14. Habitat manipulation (Chapter 14)

15. Overview of control methods and materials for selected species
   A. White-tailed deer
   B. Geese
   C. Beavers
   D. Raccoons
   E. Large carnivores
   F. Pigeons, starlings, vultures

16. Course wrap up (Chapter 16) – Developing an Integrated Approach
<table>
<thead>
<tr>
<th>Date</th>
<th>Room #</th>
<th>Time</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Friday, January 23</td>
<td>157 PBB</td>
<td>9:00-12:00</td>
<td>Course Introduction and meeting with Keith Blanton; USDA Wildlife Services</td>
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<tr>
<td>Friday, January 30</td>
<td>114 PSS</td>
<td>9:00-12:00</td>
<td>Topics 1-8</td>
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<td>Friday, February 6</td>
<td>157 PBB</td>
<td>9:00-12:00</td>
<td>Topics 9-14</td>
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<tr>
<td>Friday, February 13</td>
<td>FIELD</td>
<td>8:00-4:00</td>
<td>Learn about Wildlife Damage Management Issues in the Great Smoky Mountains National Park. Focus on bears and hogs. Will need field clothing and lunch/snack.</td>
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<tr>
<td>Friday, February 27</td>
<td>FIELD</td>
<td>8:30-5:00</td>
<td>Animal Trapping Lab in Oak Ridge, Tennessee. Bring lunch/snacks both days. Will need waders and field clothing.</td>
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<tr>
<td>Saturday, February 28</td>
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<td>8:30-1:00</td>
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<tr>
<td>Friday, March 26</td>
<td>157 PBB</td>
<td>9:00-11:00</td>
<td>GENERAL REPORTS DUE Overview of control methods for deer, geese, beavers, pigeons, starlings, vultures</td>
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<td>Friday, April 2</td>
<td>157 PBB</td>
<td>9:00-12:00</td>
<td>Public Meetings</td>
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<td>Friday, April 16</td>
<td>157 PBB</td>
<td>9:00-12:00</td>
<td>Public Meetings FINAL EXAM</td>
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<td>Thursday, April 22</td>
<td>FIELD</td>
<td>Leave at 2:00 on Thursday and return Friday night</td>
<td>Beaver control in west Tennessee. We will travel Thursday afternoon, spend the night, and learn about beaver control on Friday. Will head back to Knoxville, Friday night. Need overnight gear, food/snacks, waders.</td>
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<tr>
<td>Friday, April 23</td>
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