TENTATIVE SCHEDULE
WLF 303
WILDLIFE MANAGEMENT TECHNIQUES
FALL 2003

Instructor: R. Terry Bowyer
Office: 310 Irving Bldg. 1
Office phone: 474-5311

Office Hours:
Wed 9:00 – 10:00
Thur. 9:00 – 11:00

TA: Kelley M. Stewart
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Office Hours:
Tue. 10:00 –11:00 am
Wed. 1:30 – 2:30 pm

Course prerequisites: Biol. 271 (Ecology) and WLF 201 (Principles of Wildlife Management). Statistics (Stat 200 or 300) is recommended. Students without necessary prerequisites are subject to faculty initiated withdrawal (FIW) from this course. Students are required to attend all laboratories and students missing lectures also may be subject to FIW.

<table>
<thead>
<tr>
<th>DATE</th>
<th>SUBJECTS</th>
<th>POINTS</th>
<th>READINGS</th>
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</thead>
</table>
| 8 Sept.  | Large Animals Research Station (LARS)         | 20     | Altmann (1974)
<p>|          |                                               |        | Chaps 1 and 2                                 |
| 15 Sept. | Capture and Restraint (LARS)                  | 0      | Chaps. 4 – 7                                  |
|          | Drug Handling Safety                          |        |                                               |
| 22 Sept. | Library Search                                | 20     | REQUIRED TO PASS COURSE!                      |
|          | Crossword                                     | 10     |                                               |
| 29 Sept. | Game bird ID                                  | 0      | Bellrose (1976)                               |
| 13 Oct   | Midterm                                       | 50     | Bird and Mammal ID                           |
| 20 Oct.  | GIS and Home Range Analysis                   | 0      | Chap 21                                       |
|          | Dr. Julie Maier                               |        |                                               |
| 27 Oct.  | Data Analysis and Scientific Method           | 0      | Chaps. 1-3 (Zar)                              |
|          | Preparing a CV                                | 10     | Batschelet (1964)                             |
|          |                                               |        | Romesburg (1981)                              |
|          |                                               |        | Wilm (1952)                                   |</p>
<table>
<thead>
<tr>
<th>DATE</th>
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<tbody>
<tr>
<td>3 Nov.</td>
<td>Habitat Selection</td>
<td>10</td>
<td>Chap 10, 20, 22, 23.</td>
</tr>
<tr>
<td></td>
<td>Irving 303</td>
<td></td>
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<tr>
<td>10 Nov.</td>
<td>Logistic Equation, Life Tables and Leslie Matrices</td>
<td>25</td>
<td>Chaps 9, 16</td>
</tr>
<tr>
<td>17 Nov.</td>
<td>Ricker-like Harvest Models</td>
<td>25</td>
<td>Chap. 17</td>
</tr>
<tr>
<td>24 Nov.</td>
<td>Survivorship</td>
<td></td>
<td>Pollock et al. 1991</td>
</tr>
<tr>
<td>26 Nov. – 30 Nov.</td>
<td>HAPPY THANKSGIVING</td>
<td></td>
<td></td>
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<tr>
<td>1 Dec.</td>
<td>Sexing and Aging</td>
<td>20</td>
<td>Chap. 8, 11</td>
</tr>
<tr>
<td>8 Dec.</td>
<td>Food Habits and Quality</td>
<td>10</td>
<td>Chap. 12</td>
</tr>
<tr>
<td>17 Dec.</td>
<td>Final Exam (Everything except specimen ID and nomenclature)</td>
<td>200</td>
<td>All Remaining</td>
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<td>10:15-12:15</td>
<td></td>
<td></td>
<td>chapters in Bookhout</td>
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Unless otherwise indicated, all required readings are from the required texts.

Required Texts


Recommended Books


Other Assigned Readings (available in Biology and Wildlife Office)


| GRADING |
| Lab Assignments | 150 |
| Quiz | 50 |
| Midterm | 50 |
| Term Paper | 150 |
| Final Exam | 200 |
| Total | 600 |

Note: Late assignments will receive a grade of 0. Special arrangements or a doctor's evaluation of illness are required to make up a test or other assignment. I reserve the right to add additional tests or quizzes if students do not come to lecture and lab prepared.

| GRADING POLICY |
| 100 – 90 % = A |
| 89 – 80 % = B |
| 79 – 70 % = C |
| 69 – 69 % = D |
| 59 – 0 % = F |

I reserve the right to curve tests if I deem this appropriate.
WLF 303
WILDLIFE MANAGEMENT TECHNIQUES

TERM PAPER

Each student is required to write a term paper concerning a wildlife technique. No more than 1 student may write on each topic. Students must sign up for the topic that they wish to write about (first come, first served). Failure to submit a final copy of the term paper by the appropriate date will result in a final course grade of F.

The paper should be based on a review of the pertinent literature and provide a critical analysis of a technique used by biologists. You are responsible for a literature search; one of the objectives of this course is to familiarize you with sources of information concerning wildlife. Each paper must contain a minimum of 20 primary references; papers with 30 references are more likely to receive a high grade.

Length of the paper is strictly limited to 10 pages of double-spaced, typewritten text (not including a 250-word Abstract, Literature Cited, Tables, and Figures). Handwritten papers will be returned with a grade of zero! You are encouraged to have others edit your writing, but be sure that the original work was your own.

FORMAT AND STYLE

Papers will be in the style and format of Journal of Mammalogy (see manuscript guidelines available on website). Papers written in other styles (especially those using improper footnoting) will receive a grade of zero! Examine a recent journal for proper format. The paper should not include nonscientific sources such as Field and Stream, Audubon, Outdoor Life, National Geographic, or National Wildlife. Primary references are required, whereas generalized reviews such as those in Scientific American, Animal Encyclopedias, or some books are unacceptable. Suitable sources of information include, but are not limited to: Journal of Mammalogy, Mammalia, The Journal of Wildlife Management, Wildlife Society Bulletin, Wildlife Monographs, Ecology, Ecological Applications, The Wilson Bulletin, Auk, Condor, Ibis, Science, Behaviour, Animal Behaviour, Ethology, The American Naturalist, Conservation Biology, Behavioral Ecology, Canadian Field-Naturalist, Canadian Journal of Zoology, and California Fish and Game (and many other peer-reviewed journals).

The paper should be defined narrowly enough to intensively cover the subject. A work that shows a clear understanding of the subject as evidenced by good organization and development of ideas invariably makes the best report. Organizing your ideas in an outline is a good way to start. You should use data
SPECIFIC INSTRUCTIONS

Title:
The title should be concise and descriptive. Avoid scientific names in titles; place scientific names in the key words.

Scientific Names:
Common names of plants and animals are accompanied by their scientific names the first time they are used in the paper (in both the Abstract and the body of the paper).

Footnotes:
In general, avoid footnotes. Exceptions may be necessary, such as footnotes to tables.

Subheadings:
Use where appropriate such as Results, Discussion, etc. (Your paper probably will not have a Methods section – DO NOT include methods used in searching the literature)

Quotes:
Avoid quotes; provide page number if used.

Format and Style:
Use the style of Journal of Mammalogy for your papers (be sure to consult the guidelines for manuscripts and a recent copy of the journal).

References:

A. Citations in the text.

In the text of your paper, factual statements must be accompanied by a reference. Use the author-date method for citations; some examples follow.

1. For a reference by 1 author: Variation in food quality can influence age at first breeding, onset and frequency of estrus and condition of offspring (Fraser 1968).

2. For a reference by 2 authors: Selectivity by hunters has been cited for heavy harvests of males during open seasons (Severinghaus and Cheatum 1956).

3. For a reference by ≥ 3 authors: Van Etten et al. (1965) concluded that proportionately fewer deer were seen at low than at high population densities.
B. Literature Listing

All references are listed alphabetically by last names of authors under "Literature Cited." Use initials for given names of authors. All citations in the body of the paper must be listed in the Literature Cited and vice versa. Examples of proper format for the references in Literature Cited:


PLAGIARISM

Plagiarism is using the ideas or words of another person without giving credit to the original source. This includes copying or paraphrasing from a book, journal, or unpublished material without giving credit to the author(s), and submitting a term paper that was used in another course. Students who plagiarize will receive a final course grade of F. You may not use the term paper in WLF 303 to satisfy the requirements of another course at UAF.

DUE DATES

All term paper assignments must be completed in the order they are assigned – skipping an assignment will result in a grade of 0, even if a final term paper is submitted.

1. Approval of topic for paper – Monday, 22 Sept. 2002 (5 points)

2. Outline with 15 primary references – Monday, 6 Oct. 2002 (20 points)

3. First draft of term paper – Mon, 3 Nov. 2002 (25 points). Each student must meet with me to discuss the comments on their draft prior to submitting the final paper.

4. The last date to submit the final term paper (2 copies) and a letter of transmittal (see handout) is Monday, 1 Dec. 2002 (100 points); late papers will not be accepted.
in the scientific literature to provide a critical review of a topic. Be sure to present evidence (from the literature) to support your statements, including appropriate descriptive and inferential statistics used in the articles.

Your paper will be graded on the following criteria:

**Content**
- Amount of information
- Accuracy of information
- Value of information
- Analysis of information

- Logical interpretation
- Scope suitability restricted
- Originality

**Organization and Expression**
- Conciseness
- Clarity
- Arrangement of information

**Format (Journal of Mammalogy)**
- Citations and references
- Tables, figures, legends
- Margins
- Headings
- Neatness

**English and Usage**
- Spelling (10 misspelled words = F)
- Grammar
- Word usage (see American Society of Mammalogy handout)
- Punctuation