Biology 104X, Fall 1999
Natural History of Alaska
Lecture: M, W, F 8:00 - 9:00  Schiable Auditorium
Labs: R 9:45-12:45 or 2:00-5:00 or F 11:00-2:00, 103 Irv I

Instructor:        Dr. Susan Sharbaugh  405D Bunnell

Phone:            *5941-- leave a message if I'm not there

E-mail:           ftsms@uaf.edu

Office Hours:     Tuesday 10:00 - 12:00 and by appointment

Teaching assistants:
    Jeff Jacobs, 154 Arctic Health, *1195, ftjmj@uaf.edu
    Julie Neville, 202 Irving I, *1983, ftjan@uaf.edu
    Jamie Womble, 231 Irving II, *7407, ftjnw@uaf.edu


Lecture Exams: There will be five 100 point lecture exams. These exams may include multiple choice, true/false, matching and short answer essay questions. Exam questions will be drawn from lecture material and the required readings (even if I haven't said a word in class about the required readings). Review sessions will be held prior to examinations. These 500 points are 75% of your grade.

Lab Quizzes/Homework: Labs are an integral part of the course. There will be a weekly lab quiz or lab homework assignment that will total to 25% of the course grade. Do not rely on your lecture exams scores to carry you through, you must pass the lab component to pass the course.

Make-up Exams: It is easier for all of us if you just show up for the exams. If you must miss an exam, talk with me before the exam day. If something drastic happens and you can't make the exam, call me (474-5941) and explain the situation. If I'm not in, leave your explanation on my voice mail. If I don't hear from you after the exam, you will automatically receive a zero. And finally, explanations given after the missed exam will not automatically warrant a make-up.

Grading Scale:  

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 -100%</td>
<td>A</td>
</tr>
<tr>
<td>80 - 89%</td>
<td>B</td>
</tr>
<tr>
<td>70 - 79%</td>
<td>C</td>
</tr>
<tr>
<td>60 - 69%</td>
<td>D</td>
</tr>
<tr>
<td>0 -59%</td>
<td>F</td>
</tr>
</tbody>
</table>
Biology 104X: Natural History of Alaska
Tentative Lecture Outline

Sept
3  Course introduction, what is natural history?
8  Alaska's climate and weather
10  Water: how it shapes communities
13  Ice and snow
15  Glaciers and the Ice Ages
17  Landforms and geology of Alaska

20  Permafrost and northern soils
22  Dinosaurs and Prudhoe Bay
24  Alaska in the Pleistocene

27  EXAM
29  Trees of the far north

Oct
1  Boreal forest ecosystem

4  Flowers + pollinators = berries; plant reproduction
6  Our insect buddies: mosquitoes, yellow jackets, etc.
8  Spruce bark beetle

11  Tundra ecosystem: flora
13  Tundra ecosystem: fauna
15  The tundra and global change

18  EXAM
20  Plant-animal interactions (part 1)
22  Plant-animal interactions (part 2)

25  Charismatic mega-fauna week: Caribou
27  Charismatic mega-fauna week: Bears
29  Charismatic mega-fauna week: Moose
Nov 1  Charismatic mega-fauna day: Wolf
3  EXAM
5  The smaller guys: rodents of the north
8  Red, flying and arctic ground squirrel
10 Snowshoe hare and furbearers
12 Our feathered friends: resident birds
15 Bird migration
17 Waterfowl populations and their management
19 Salmon life cycles

Dec 1  EXAM
3  Marine fish: the problems with pollock
6  THANKSGIVING BREAK
8  Overwintering strategies
10 Plant adaptations to cold
12 Human impacts on northern systems (part 1)
15 Human impacts on northern systems (part 2)
17 Alaska - a grand tour
17 FINAL EXAM  8 am