BIOTELEMETRY
BIOL 197
F2017

Meets
TBA

Instructor
Knut Kielland, Prof.
kkielland@alaska.edu
Phone: 474-7164
Office hours: Mon 1-2 pm or by appointment in 406 Irving

Prerequisites
Permission from instructor

Description
This course focuses on field applications of radio telemetry and how to collect reliable telemetry information to derive home range and survival estimates for free-living snowshoe hares. Students will learn how to use hand-held telemetry equipment in the field, identify the meaning of variations in radio signals, efficiently locate radio tagged animals in the field, and identify sources of mortality. Student will also learn how to carry out survival analyses using the Kaplan-Meier estimator.

Objectives
Upon successful completion of the course, the student will have a basic understanding of proper use of radio telemetry equipment and concepts underlying the design, sampling procedures and analysis of home range size and survival of wildlife based on radio telemetry.

Readings
Contemporary papers as assigned.

Instructional
Methods
Student will be assigned chapter readings from text book and will provide 1-2 page summaries of readings on a bi-weekly basis.

Evaluation
Student performance will be evaluated on his knowledge of the material as revealed by discussion with instructor, the quality of the bi-weekly written summaries, and a final paper on how radio telemetry can be applied to derive demographic information from free-living animals.

Assessment
Grade will be based on bi-weekly written assignments (50%) and final paper (50%)

Grading
Pass/Fail

Exams
A final term paper will be required in lieu of an in-class final exam
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<tr>
<th>Attendance</th>
<th>Student will have weekly email exchanges with instructor and work independently for a minimum of 3 hours per week</th>
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<td>Academic dishonesty</td>
<td>Acts of academic dishonesty include cheating on exams, helping others to cheat, plagiarizing (see below), feigning illness to obtain an extension, and turning in work that was written for another class without permission. Please read the UAF Student Code of Conduct in the UAF Catalog. Students who behave dishonestly will receive an F for the class and the case will be presented to the University Disciplinary and Honor Code Committee for review. Students are encouraged to work groups on lab exercises, but unless otherwise specified, each student must turn in his/her own written assignment.</td>
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<td>Disabilities</td>
<td>Students with disabilities are encouraged to inform the instructor in the first 2 weeks of class so accommodations can be made. Please do not wait until after an exam to make me aware of the issue. If you suspect that you qualify for assistance, contact UAF's Center for Health &amp; Counseling (474-7043). If you do not have a documented learning disability but feel that time pressure or cramped quarters has a negative effect on your exam performance, please discuss this with the instructor.</td>
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<td>Websites</td>
<td>The course website is administered through Blackboard at <a href="http://classes.uaf.edu">http://classes.uaf.edu</a>. Check the website for announcements and to obtain copies of handouts and assignments. Grades will be posted on Blackboard. When you enrolled in the course, you were automatically registered on the course website. To log on, enter your UAF username (the first part of your UAF email address, e.g. fsxyz) and your Blackboard password. If you have forgotten your password, follow the instructions on the Blackboard home page. (Note that your Blackboard password is not necessarily the same as your UAF email password.) If you have never logged on to Blackboard before, your password should be your student ID number followed by a capital U (e.g. 366888888U).</td>
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