Avian Physiology  
BIOL/WLF 697  
Spring 2019  
CRN

Course information
Meets: Tentatively Tuesday/Thursday @ 11am for 1.5 hours  
Course Type: Online, laboratory, self-study  
3 credits  
Prerequisites: graduate standing or permission of instructor  
Instructor  
Tuula Hollmen – tehollmen@alaska.edu

Course goals and student learning outcomes
The goal of this course is to provide the student with specific instruction on topics in avian physiology with particular emphasis on the physiology of reproduction. Specific topics may include: avian nutrition, circulation, respiration, digestion, endocrine system and hormone regulation, thermodynamics, and reproduction. This course will briefly cover analysis of physiological data as well as how to incorporate results into a manuscript. In addition to discussion and review materials, there will be a week long laboratory intensive component conducted at the Alaska SeaLife Center in Seward, Alaska. Here the student will practically apply theoretical knowledge of physiology by running analyses in the laboratory. Analyses will include biochemical assays using blood samples collected by the student during the field season. The student will incorporate laboratory results with other data analysis and present a written summary.

At the successful completion of the course, the student will be able to:
- Develop appropriate research questions regarding avian physiology
- Understand principles of physiological ecology, with specific emphasis on reproductive physiology
- Understand laboratory analyses of avian blood biochemistry
- Integrate laboratory data with other ecological data analysis
- Write a summary of laboratory results appropriate for inclusion in a manuscript

Instructional methods
Course goals will be met through a combination of critical review of papers, textbook readings, written assignments, and laboratory analyses. Contact time will comprise of approximately 80% laboratory work and assignments, and 20% discussions.

Web based platform
The course materials will be shared and administered on a University course website.

Evaluation and Grading
Student will be expected to complete all course assignments and attend discussion sessions.

Student performance will be assessed as follows:
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<tr>
<th>Activity</th>
<th>% of Total Points</th>
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<tr>
<td>Participation and understanding of classroom topics</td>
<td>100</td>
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<tr>
<td>Assignments</td>
<td>300</td>
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<tr>
<td>Laboratory Analysis</td>
<td>300</td>
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<td>Final summary of results</td>
<td>300</td>
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<tr>
<td>Total</td>
<td>1000</td>
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Only whole letter grades will be given (no +/-).

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<thead>
<tr>
<th>% of Total Points</th>
<th>Letter Grade</th>
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<tbody>
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<td>100-90</td>
<td>A</td>
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<td>89-80</td>
<td>B</td>
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<td>79-70</td>
<td>C</td>
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<td>69-60</td>
<td>D</td>
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<td>&lt;59</td>
<td>F</td>
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Readings
Readings will come from both the primary literature and books. Primary literature readings will be provided to the student on the course website. The student will obtain:


Academic Dishonesty
UAF students are subject to the Student Code of Conduct. Plagiarism, or the use of someone else’s text, graphics, or original ideas without proper citation, is a serious violation of the Code. Academic dishonesty will lead to a failing grade in the course and possibly to further disciplinary action. More information on academic honesty and plagiarism can be found on the Biology and Wildlife website [https://www.bw.uaf.edu](https://www.bw.uaf.edu), Graduate/Academic Honesty).

Disabilities Act
The Office of Disabilities Services implements the Americans with Disabilities Act (ADA) and insures that UAF students have equal access to the campus and course materials. The instructor will work with the Office of Disabilities Services (203 WHIT, 474-7043) to provide reasonable accommodation to students with disabilities.

UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: [alaska.edu/nondiscrimination](http://alaska.edu/nondiscrimination).

Title IX Protection
University of Alaska Board of Regents have clearly stated in BOR Policy that discrimination, harassment and violence will not be tolerated on any campus of the University of Alaska. If you believe you are experiencing discrimination or any form of harassment including sexual harassment/misconduct/assault, you are encouraged to report that behavior. If you report to a faculty member or any university employee, they must notify the UAF Title IX Coordinator about the basic facts of the incident.
Your choices for reporting include:

1. You may access confidential counseling by contacting the UAF Health & Counseling Center at 474-7043;
2. You may access support and file a Title IX report by contacting the UAF Title IX Coordinator at 474-6600;
3. You may file a criminal complaint by contacting the University Police Department at 474-7721.