

# WILDLIFE PHYSIOLOGICAL ECOLOGY

## WBIO 346; Fall Semester, 2020

**Time and location:** MWF 11:00-11:50, remote (Zoom) and Social Science 352 (in-person)

**Instructor:** Andreas Eleftheriou, [andreas.eleftheriou@umontana.edu](mailto:andreas.eleftheriou@umontana.edu)

Office: Bioresearch building Room # 014 (basement), 243-5790

**Teaching Assistant:** Leah Joyce, [leah.joyce@umontana.edu](mailto:leah.joyce@umontana.edu)

Office: Health Sciences Room # 406

**Office hours:** Andreas Eleftheriou: M/W 2:00-3:00 or by appointment (please email)

Leah Joyce: T/Th 1:00-2:00 or by appointment (please email)

### Course Grading:

**Exams:** Exams make up 80% of your grade. There are 4 semester exams and 1 cumulative final. However, only 4 exams will count towards your grade. Therefore, your lowest exam score will be dropped. If the mean grade for the course is below 80%, grades will be curved to set the mean at that level.

**Assignments and group sessions:** Assignments will be worth 20% of your grade. Each assignment will receive a +/✓+/✓/- for effort and content. Plus = 100%; check plus = 93%; check = 85%; minus = 70%. You will meet with your assigned group to discuss papers and questions that will make up the assignment. There will be 4 in-person group sessions as outlined in the class schedule. Part of the assignment will be due prior to meeting with your group, and the rest will be due by midnight on discussion days. All assignments must be submitted on Moodle by every group member.

**Group Participation:** We will ask each of you to evaluate your group members during the semester. These evaluations will not contribute directly to your grade, but if you are on a grade borderline at the end of the semester, results of these evaluations will influence whether your grade moves up or not. A rubric will be provided.

**Exam/Assignment Policy:** No late exams will be given. If you must miss an exam, let me know well in advance and I will set up an exam for you to take before the scheduled date. If you must miss an in-person discussion, please let me know well in advance and why you cannot attend.

**Text:** There is no required text. I will draw from Animal Physiology; adaptation and environment 5<sup>th</sup> edition, and How animals work, both by Schmidt-Nielsen. Schmidt-Nielsen takes an environmental perspective in organizing physiological systems. If you would like to purchase the texts, you can find affordable used ones online.

**ADA:** The University of Montana provides upon request appropriate academic adjustments for qualified students with disabilities. For more information, contact the [Disability Services for Students](http://www.umt.edu/dss/about/default.htm) at 243-2243 (<http://www.umt.edu/dss/about/default.htm>).

# Wildlife Physiological Ecology – Eleftheriou, FALL 2020

## Class Schedule

AUG	19	INTRODUCTION
	21	INTRODUCTION
	24	ENERGETICS
	26	ENERGETICS
	28	ENERGETICS
	31	ENERGETICS
SEP	2	<u>class discussion</u>
	4	review
	7	<b>NO CLASS – LABOR DAY</b>
	<b>9</b>	<b>EXAM 1</b>
	11	METABOLISM
	14	METABOLISM
	16	ALLOMETRY
	18	ALLOMETRY
	21	OXYGEN PHYSIOLOGY
	23	OXYGEN PHYSIOLOGY
	25	<u>class discussion</u>
	28	review
	<b>30</b>	<b>EXAM 2</b>
Oct	2	TEMPERATURE
	5	TEMPERATURE
	7	TEMPERATURE
	9	<u>class discussion</u>
	12	OSMOREGULATION
	14	OSMOREGULATION
	16	OSMOREGULATION
	19	review

**21 EXAM 3**  
23 STRESS PHYSIOLOGY  
26 STRESS PHYSIOLOGY  
28 STRESS PHYSIOLOGY  
30 class discussion  
NOV 2 ECOLOGICAL IMMUNOLOGY  
4 ECOLOGICAL IMMUNOLOGY  
6 review  
**9 EXAM 4**  
**11 NO CLASS – VETERANS DAY**  
13 METHODS IN PHYSIOLOGICAL ECOLOGY  
16 review  
**18 EXAM 5 (FINAL EXAM)**

## **COVID-19 Information for in-person instruction:**

- Mask use is required within the classroom
- You will be provided with a cleaning kit. The expectation is that you will clean your personal work space when you arrive for class, and before you leave the classroom
- Classrooms may have one-way entrances / exits to minimize crowding
- Congregating outside the classroom before and after class is discouraged
- Specific seating arrangements will be used to ensure social distancing and support contact tracing efforts
- Class attendance will be recorded to support contact tracing efforts
- Drinking liquids and eating food is discouraged within the classroom (which requires mask removal)
- Information on the nearest “refill” stations for cleaning supplies/hand sanitizer will be provided (if applicable)
- If the class is being recorded, you will be notified of the recording
- Stay home if you feel sick and/or if exhibiting COVID-19 symptoms
- If you are sick or displaying symptoms, please contact the Curry Health Center at (406) 243-4330
- Up-to-Date COVID-19 Information from the University of Montana
- UM Coronavirus Website: <https://www.umt.edu/coronavirus>
- UM COVID-19 Fall 2020 website: <https://www.umt.edu/coronavirus/fall2020.php>
- You are encouraged to remain vigilant outside the classroom in mitigating the spread of COVID-19