Biology 834—Conservation Biology (3 Credits) Spring 2023

Instructor: Dr. Keith Geluso (please feel free to call me Dr. G or just "Keith")

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Office Hours: By appointment arranged in advanced (**just send me an email**) is likely best because for most this may entail a phone call as this is an online class. I'm in my office MWF 900-950 for walk-ins but phone calls are also welcome at this time. If someone is already in the office, I will let you know and have to call you back. <u>I am open to phone calls during the evening, and possibly, on weekends to fit everyone's schedule; **BUT FIRST** just drop me an email so we can set up a time! Some days I may be unavailable and not check emails etc. due to field research or other obligations, so I may not check email for 24 hours, but that is rare. I have research in KS that I'll take trips to Fri-Sun during the semester.</u>

<u>Lectures</u>: Online Class. Some lectures will be prepared by me and available for viewing via Voice Thread, but most of the class entails reading and watching preparing short (taped) mini-lectures and write-ups on areas of your interest regarding conservation biology. As you will read below, this is <u>NOT</u> a lecture-driven class where you would be responsible for regurgitating large quantities of facts on exams. My graduate classes, especially special topic classes (i.e., those not required for all students), were graduate-student driven; I will structure this class in such a manner.

<u>Textbook:</u> None. We will read peer-reviewed scientific literature and prepare presentations from such papers on topics of your interest, as this is a graduate-level class.

Prerequisites: None.

<u>Catalog Description:</u> An overview of conservation biology and its importance. Special emphasis is placed on ecological, economic, and social issues relevant to biological rarity. Offered online, Spring of odd-numbered years.

<u>Course Overview</u>: Planet Earth has evolved an amazing diversity of life forms during its 3.6-billion-year history. However, this amazing biological diversity is now threatened from rather rapid forms of environmental change. We will examine and discuss the causes and ramifications of biodiversity loss by surveying different topics related to conservation biology. I will select some topics, but others will be of your interest. We will discuss potential topics in the first few weeks of the class.

Course Objectives:

- Demonstrate ability to use vocabulary needed to understand and converse about Cons. Biology
- Become familiar with the many causes for the loss of biodiversity on earth
- Understand and discuss how to mitigate and reduce loss of biodiversity
- Become familiar with some tools and techniques associated with conservation biology
- Become readily familiar with finding papers in the primary literature
- Read, evaluate, discuss, and present information from peer-reviewed journal articles
- Summarize information from primary literature with written and oral communication skills
- Listen and learn from other student presentations as well as discuss and comment on talks

Course Policies:

<u>Participation</u>: Students are expected to participate in all class readings, writing assignments, exams, and oral presentations. Participation will be evaluated by me, the professor. Failure to contribute in a meaningful way will result in a grade reduction based on my professional judgment.

<u>Absences</u>: If you are ill or have another extenuating circumstance during the semester where you cannot participate in online-class activities please let me know. Neither absence nor notification of absence relieves the responsibility for meeting all course requirements. All readings, oral presentations, and written assignments are a course requirement. **Items missed due to unexcused absences cannot be made up**. It is recognized that unavoidable situations do arise that are legitimate excuses for absence (i.e., lack of participation with the online structure of the course). Severe injury, hospitalization, death in the immediate family, illness, other unexpected family obligations are all acceptable reasons for absences. Final determination of the acceptability of an absence is my prerogative. Please inform me ASAP of such absences.

<u>Student code of conduct</u>: As is standard procedure in all university classes, this course follows the rules and procedures outlined in the UNK Student Handbook. Cheating, plagiarism, harassment, and abuse of academic materials or equipment will not be tolerated and the consequences for violating the code can be serve, ranging from a zero on an assignment or exam to failing the course and expulsion from the university.

<u>Disruptive behavior:</u> If you are disruptive to the online class more than once during the semester, steps will be taken to permanently remove you from class.

Grades: Grades will be assigned using the grading scale: A (92-100%), A- (90-91%), B+ (87-89%), B (82-86%), B- (80-81%), C+ (77-79%), C (72-76%), C- (70-71%), D+ (67-69%), D (62-66%), D- (60-61%), and F (below 60%). Grade assignments are final unless a calculation error exists.

Grades will be determined by the following rubric (There is no extra credit; do not ask for it)

Presentation #1 and write up

Presentation #2 and write up

Meaningful participation in discussions (Voice Thread)

Writing assignments

Exams (Midterm 25 pts & Final 75pts)

15% of total grade
25% of total grade
5% of total grade
20% of total grade

The way I calculate grades is by weighted average, where I add up all the points earned in the above categories out of the points possible, and then I multiple by the percentage shown above. At this point, I do not know how many points we might have in each category, as I like to have flexibility in assignments given throughout the semester.

Assignments etc.: I will open up a new module in Canvas every two weeks at the same time for new assignments, except for the first week. This time will be no later than Mondays by 5:00 pm central time. If the module is ready to go, I'll likely open it early or mid-morning on Monday. More details to come on specifics of assignments.

<u>Due dates:</u> We will have the same biweekly "due date" for all assignments, unless explicitly stated otherwise. All assignments, posts, presentations, etc. will be due at 11:59 pm Central Time on the last Sunday of the two-week period, unless otherwise stated. The one major exception will be Week 1 where assignments will be due by Sun (29 Jan.) at 11:59 pm Central Time. Weeks 2 and 3 assignments will be due during the end of 3rd week of class on Sunday 12 Feb. at 11:59 pm Central Time. (Note: Nebraska is a state that follows Daylight Savings time, so on 12 March, we will move our clocks ahead 1 hour to begin Daylight Savings).

<u>Late assignments:</u> For each day late, 10% of the grade will be taken off. If an assignment is over 7 days late, you will receive no credit for it.

<u>Students with Disabilities:</u> It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students with documented disabilities. To receive accommodation services for a disability, students must be registered with the UNK Disabilities Services for Students (DSS) office, 175 Memorial Student Affairs Building, 308-865-8214 or by email unkdso@unk.edu

Once you have an accommodation plan through UNK Disabilities Services office, you must review it with *me as soon as possible*, so we can make any arrangements necessary for your learning. No accommodations will be provided until an Academic Accommodation Plan is in place and *signed*. Please remember plans are not retroactive and cannot be used for assignments or events prior to the date of our signing of the formal Academic Accommodation Plan; I will make a copy of signed accommodations for my office, and signed copies must also be in the DSS office too, which is the student's responsibility to get them there, before accommodations are effective.

UNK Statement of Diversity & Inclusion: UNK stands in solidarity and unity with our students of color, our Latinx and international students, our LGBTQIA+ students and students from other marginalized groups in opposition to racism and prejudice in any form, wherever it may exist. It is the job of institutions of higher education, indeed their duty, to provide a haven for the safe and meaningful exchange of ideas and to support peaceful disagreement and discussion. In our classes, we strive to maintain a positive learning environment based upon open communication and mutual respect. UNK does not discriminate on the basis of race, color, national origin, age, religion, sex, gender, sexual orientation, disability or political affiliation. Respect for the diversity of our backgrounds and varied life experiences is essential to learning from our similarities as well as our differences. The following link provides resources and other information regarding D&I: https://www.unk.edu/about/equity-access-diversity.php

<u>Students Who are Pregnant:</u> It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students who are pregnant. To receive accommodation services due to pregnancy, students must contact the Student Health office at 308.865.8218. The following links provide information for students and faculty regarding pregnancy rights. https://thepregnantscholar.org/title-ix-basics/

https://nwlc.org/resource/faq-pregnant-and-parenting-college-graduate-students-rights/

Reporting Student Sexual Harassment, Sexual Violence or Sexual Assault: Reporting allegations of rape, domestic violence, dating violence, sexual assault, sexual harassment, and stalking enables the University to promptly provide support to the impacted student(s), and to take appropriate action to prevent a recurrence of such sexual misconduct and protect the campus community. Confidentiality will be respected to the greatest degree possible. Any student who believes she or he may be the victim of sexual misconduct is encouraged to report to one or more of the following resources:

Local Domestic Violence, Sexual Assault Advocacy Agency 308-237-2599 Campus Police (or Security) 308-865-8911 Title IX Coordinator 308-865-8655

Retaliation against the student making the report, whether by students or University employees, will not be tolerated.

<u>Veterans Services:</u> UNK works diligently to support UNK's military community by providing military and veteran students and families with resources and services to help them succeed. Veterans Services assists with the GI Bill process and acts as a liaison between the student and the Veterans Administration. If you need assistance or would like more information, please contact Lori Weed Skarka at 308-865-8520 or unkveterans@unk.edu.

<u>Virtual Classroom Protocol</u>: Communication with instructor: All correspondences should be through email (at first). If you email me, I will generally try to respond within 24 hours on workdays. On weekends, I may not check emails, so some replies will be addressed on Monday or at the latest Tuesday. If you would like to speak to me directly on the phone, it is often <u>best</u> to set up an appointment via email. Again, I am very open to phone calls; I find it much easier to talk rather than attempting to write everything out! If you are in town, on-campus, or nearby, please feel free to come talk in person. I will let you know in advance if I will be unavailable to respond to emails for multiple days in a row, for example, if I have to go out of town for field research.

Respect and Professionalism: Although this is an online course, many of our interactions will occur via Canvas, Voice Thread, and emails. Thus, we will have interactions with one another throughout the semester. It is important and required that you always be respectful of others in the virtual classroom. All thoughtful and professional opinions and comments are welcome. Students should try to have a positive attitude and willingness to listen to and consider other opinions. Students who are unable to act in a professional manner will be docked for specific assignments and for overall participation.

<u>Tentative Lecture/Class Schedule:</u> At this time, I am not going to show a detailed schedule, as I need to know the final count of students in the class. Here is a general schedule as of now.

Week 1 Introduction to Class and Procedures

Assignment (Call & Topic search) due by Sunday 29 Jan. at 11:59 pm (phone calls due ~ 3 Feb.)

Weeks 2 & 3 Exps. of presentations; VoiceThread Intros, etc.

Geluso presentations: (Glass Bottles Vertebrate Mortality & Importance of Caching Rodents)

Writing Assignment: (natural area reflection; VT 1st post, Topics) Due 12 February at 11:59 pm

Watch professional video: (1.5 h long) and have discussion (due later) on VoiceThead (VT)

Reading Assignments: (I will post on Canvas)

- 1. Soule, M.E. 1985. What is conservation biology? Bioscience 35(11):727-734.
- 2. Kareiva, P. and M. Marvier 2012. What is conservation science? Bioscience 62(11):962-969.

Discussion Assignment: make comments on my Voice Thread presentations

Weeks 4 & 5 (These items will be due 26 February at 11:59 pm)

Student presentations (See list in Weeks 2 & 3 of students for those due on 26 Feb)

Discussion Assignment: VoiceThread about Soule 1985/Kareiva and Marvier 2012

Discussion Assignment: Voice Thread about professional video from last weeks

Geluso presentation: (Wind Energy and Bats) make comments on my Voice Thread Talk

Weeks 6 & 7 (These items will be due 19 March at 11:59 pm)

Student presentations: (See list in Weeks 2 & 3 of students for those due 19 Mar)

Discussion Assignment: Watch 7 student presentations from Weeks4/5 and make comments

Weeks 9 & 10 (Items will be due 2 April at 11:59 pm)

Student presentations: (See list in Weeks 2 & 3 of students for those due 2 April)

<u>Discussion Assignment:</u> Watch 7 student presentations from Weeks6/7 and make comments <u>Midterm Exam:</u> on Geluso's presentations and student talks from Weeks 4 & 5 (Likely open up on 21 March and <u>DUE 26 March 11:59 pm</u>)

Weeks 11 & 12 (These items will be due 16 April at 11:59 pm)

<u>Student presentations:</u> (See list in Weeks 2 & 3 of students for those due 16 April) <u>Discussion Assignment:</u> Watch 6 student presentations from Weeks9/10 and make comments

Weeks 13 & 14 (These items will be due 30 April at 11:59 pm)

<u>Student presentations:</u> (See list in Weeks 2 & 3 of students for those due 30 April) <u>Discussion Assignment:</u> Watch 6 student presentations from Weeks11/12 and make comments

Weeks 15 & 16 (These items will be due 14 May at 11:59 pm)

<u>Discussion Assignment:</u> Watch 6 student presentations from Weeks13/14 and make comments Writing Assignment: (Natural Areas Reflection: Part 2)

Finals Week

Final Exam will be due by Wed. 17 May at 11:59 pm. (I will post by Sunday night, 14 May, if not earlier)