COURSE SYLLABUS

BIOL430/BIOL830: Grassland Ecology

Department of Biology, University of Nebraska-Keamsey

Term: Spring 2022
Course Credits: 3
Course Delivery: Online - Asynchronous

Instructor
Dr. Jayne Jonas, UNK Department of Biology, BHS 346, (308)865-8224

Zoom office hours: Wednesdays, 12 pm – 1 pm CT, or by appointment. See link in Canvas.

Please contact me any time with questions or concerns. If emailing outside of Canvas, please be sure to include the course number in the subject line to ensure a timely response. I generally respond to messages within 24 hours; it may take up to 48 hours if I’m receiving many messages.

Course Overview
Broadly defined, grassland ecosystems occupy approximately 40% of the terrestrial surface of the Earth. These systems evolved and have been maintained by interactions between periodic droughts, recurrent fire, and herbivory. They also have a long history of use by humans for production of food and, more recently, energy. This course is intended to provide you with an understanding of the physiological, population, community, and ecosystem processes that characterize grassland systems, as well as the roles of fire and grazing in their maintenance. You will also learn about current issues in grassland ecology dealing with land use change, species invasions, and climate change.

Course Learning Objectives
At the completion of the course, you will be able to

1. Identify factors leading to observed spatial distributions of grasslands and shrublands from landscape to global scales.
2. Apply principles of plant population and community ecology to explain functioning of grassland and shrubland systems.
3. Articulate the role of disturbance in maintaining ecosystem structure and function in grassland and shrubland ecosystems
4. Explain and predict the impacts of global change on grassland and shrubland ecosystems, including land use change, species invasions, and climate change.
Required Texts and Materials
- Some required and optional reading materials may be provided via the Library Reserves.
- All other course readings and materials will be posted on or linked in Canvas. Please be sure to check Canvas regularly.

Required Hardware and Software
- As an online course, access to a computer and Canvas several times a week, if not daily, is required.
- To complete some assignments, you will need to use a word processing software, such as Microsoft Word, Apple Pages, or Google Docs.
  - Microsoft 365 software is available to UNK students for free download.
- Ability to use search engines (for example, Google Scholar or LoperSearch) to locate scholarly works is expected. You will practice this skill during the semester. If you are not already comfortable, you are encouraged to reach out to the Natural Sciences Librarian at Calvin Library for assistance if needed.

Important University Dates
- First day of class: January 24, 2022
- Last day to add/drop classes without approval: January 28, 2022
- Late registration with approval closes: February 18, 2022
- Spring Break: March 12 – 16, 2022
- Last day to withdraw: March 25, 2022
- Finals Week: May 9-12, 2022
- See the UNK Academic Calendar for other important University dates

Course Organization
There are 14 content modules in this course. One module will be presented each week around a particular topic with content consisting of module learning objectives, a brief mini-lecture or set of mini-lectures, assigned readings, and any other assigned learning materials. Optional materials may also be provided. All materials will be posted or linked in Canvas and/or Library Reserves.

There is also a Module 0 in which students will learn the citation style used for writing assignments in this course and review plagiarism and paraphrasing. This module should take approximately 1 hour. There are no points associated with this module, but it must be completed before Module 1 will be available.

Participation
The more students are engaged in a course, the more they tend to get out of it. As a 3-credit course completed in 14.28 instructional weeks (plus Finals Week), it is expected that you will
spend at least \(9 - 13\) hours per week on this course. I encourage you to spend at least a little time each day on it though I recognize this is not always possible.

**Communication**

Please check course announcements in Canvas frequently as this will be my primary means of communicating with the class about reminders or changes to the course. Please feel free to reach out to me at any time via Canvas messages, email, or office phone. I will respond as quickly as possible, usually within 24-48 hours. If sending an email or leaving a voicemail, please be sure to include BIOL430 or BIOL830 in the subject (email) or message (voicemail) so I can prioritize it.

**Course Assessments**

All work is assigned to all students and due by 11:59 pm Central Time on the date listed in Canvas and on the course schedule, unless otherwise indicated. If there is a discrepancy between the course schedule and Canvas, the date in the course schedule takes precedence.

**Weekly discussions**

*Discussion participation:* Module discussions provide students an opportunity to examine a peer-reviewed journal article or book chapter relevant to concepts presented in each module. Importantly, they also allow students to support one another in learning. Students are expected to uphold UNK Values and any principles of community identified by your group to establish the discussion board as a supportive and inclusive learning space.

You will be expected to compose at least three posts for each discussion (more are encouraged!): one in direct response to a question posed by the discussion leader on or before Thursday and two in response to posts from other students on or before Sunday of the assigned module week. A grading rubric and information regarding expectations for discussion participation is available in Canvas. Participation in each discussion is worth 15 points. There will be fourteen graded discussions during the semester, but the two lowest scores will be dropped (12 discussion grades will count toward the course grade). Following each module, a summary of group discussions will be posted.

The instructor will follow discussions throughout each module. However, being cognizant that students will be posting at different times during the week and not wanting to steer discussion, the instructor will make limited contributions to discussions unless there are areas in need of immediate attention.

*Discussion leading (graduate students only):* Each graduate student will be assigned to lead one discussion. Students are also expected to participate in and will receive a separate participation grade for discussions they are assigned to lead. Discussion leaders are expected to post a peer-reviewed journal article relevant to the course and module topic, provide two to three thought-provoking questions, facilitate discussion throughout the module, and post a summary highlighting the main points discussed (40 points). The leading schedule, grading rubric, and expectations for discussion leading are available in Canvas.
Literature Review project

**Assignments:** Throughout the semester, you will research the ecology of a grassland system based primarily on published scientific literature leading to completion of a literature review paper. There will be five assignments worth 10-15 points each. Instructor feedback on these assignments should be used to aid in writing the literature review paper.

**Peer review:** Each student will read and provide a constructive peer-review of one other students’ literature review paper by the end of Module 13; guidelines and expectations for the points associated with completing the peer-review are available on Canvas (15 points).

**Literature review paper:** The completed paper is due by the end of Module 12 (BIOL430: 40 points; BIOL830: 55 points). Upon receiving instructor and peer feedback, students will have the opportunity to submit a revision (BIOL430: 70 points; BIOL830: 100 points) due Wednesday of Finals week. Both submissions will be graded to the same standard. If a revision is not submitted, the percent score from the initial paper submission will be assigned as the revision score. The literature review paper submission takes the place of a comprehensive final exam. Guidelines and rubrics are available in Canvas.

Weekly Quizzes

There will be a 10-point quiz in Canvas related to the specific learning objectives of each module, except in the three modules with a scheduled exam (see below). Weekly quizzes will be available Thursday through Friday during which time students can begin whenever they choose. Once started, students will have 20 minutes to complete each quiz. Students will have two attempts to take each quiz, the highest score will be recorded. Of the eleven weekly quizzes, the two lowest scores will be dropped (9 quizzes will count toward the course grade).

Unit Exams

There will be three open-book, open-note exams worth 50 points each (Modules 5, 10, and 14). Exams will cover material from lectures, readings, and discussions relevant to stated learning objectives of modules in each unit, including the module in which the exam occurs. Exam questions will focus on material covered in each unit, but will be cumulative in so far as material builds upon prior material. There will *not* be a comprehensive final exam.

BIOL830 students will also have an essay question to complete as part of each exam (20 points). The essay question will be provided approximately one week before it is due.

All exams are to be completed by each student independently (i.e., not worked on in collaboration with others). Exams will be conducted in Canvas and will not require a proctor. They will be available Friday (12:01 am) through Sunday (11:59 pm) of Modules 5, 10, and 14. During these windows, students can take the exam whenever they choose. Students will have one attempt to take each exam and will not be able to stop then resume the exam once started. Once started, students will have 75 minutes to complete each exam. The instructor will be available for extended office hours during the module of an exam; these special office hours will be posted in Canvas.
Basis for Final Grade

<table>
<thead>
<tr>
<th>Assessments and point distribution*</th>
<th>BIOL430</th>
<th>BIOL830</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Points</td>
<td>%</td>
</tr>
<tr>
<td>Module discussions</td>
<td>180</td>
<td>30%</td>
</tr>
<tr>
<td>Participation (14 @ 15 points each, 2 dropped)</td>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td>Leading (1 @ 40 points each)</td>
<td>n/a</td>
<td>45</td>
</tr>
<tr>
<td>Quizzes/Exams</td>
<td>240</td>
<td>40%</td>
</tr>
<tr>
<td>Quizzes (12 @ 10 points each, 2 dropped)</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>Unit exams (3 @ 50-70 points each)</td>
<td>150</td>
<td>210</td>
</tr>
<tr>
<td>Literature Review project</td>
<td>180</td>
<td>30%</td>
</tr>
<tr>
<td>Assignments (5 @ 10-15 points each)</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td>Peer-review (1 @ 20 points each)</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Paper first submission</td>
<td>40</td>
<td>55</td>
</tr>
<tr>
<td>Paper final submission</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>600</td>
<td>100%</td>
</tr>
</tbody>
</table>

*Adjustments may be made as deemed necessary by the instructor

BIOL430: Final letter grades will be assigned based on total earned points as a percentage of the total possible as follows:

- A+: 97 - 100%
- B+: 87 - < 90%
- C+: 77 - < 80%
- D+: 67 - < 70%
- A: 94 - < 97%
- B: 84 - < 87%
- C: 74 - < 77%
- D: 64 - < 67%
- A-: 90 - < 94%
- B-: 80 - < 84%
- C-: 70 - < 74%
- F: < 60%

BIOL830: Final letter grades will be assigned based on total earned points as a percentage of the total possible as follows:

- A: 90 - 100%
- B: 80 - < 90%
- C: 70 - < 80%
- D: 60 - < 70%
- F: < 60%

Course Policies
I take my role as your instructor very seriously; I care about how well you do in this course and that you have a challenging and rewarding experience.

Grading Policy
It is my commitment to you to respond individually to the work you submit in this class and to return your work promptly. Discussions and weekly quizzes will be returned within five days, assignments and exams within seven days, and literature review papers will be returned within
fourteen days. If grading will take longer than the times listed here, I will keep you informed of my progress and return your work as soon as I can.

If you think there was a grading error or do not understand the feedback you receive on graded work, please contact me as soon as possible and no more than five days after the graded work has been returned to you to be regraded. Regrading may result in a lower score.

Accommodations for cases in which an end of semester grade percentage falls within 0.5% of the next highest letter grade must be requested by the student and will be decided based on participation and engagement throughout the semester. When granted, accommodations will result in a half-letter increase (for example, instead of a B an accommodated student would receive an A-). Accommodations will not be considered for semester grade percentages more than 0.50% from the next highest letter grade.

**Late Work Policy**

As a student enrolled in this course, one of your responsibilities is to submit course work by the due dates listed in the Course Schedule. With that said, there will be 2 discussion participation and 3 quiz scores dropped at the end of the semester because I recognize there may be times when you are unable to complete or submit these tasks on time.

*Quizzes and exams:* These assessments must be completed within the designated timeframe. Quizzes and exams will not be accepted late unless prior arrangements have been made at least a week in advance of the due date (e.g., university-sanctioned event, professional obligation, etc.) or if there are documented and unplanned extenuating circumstances (e.g., personal or family emergency). Contact the instructor as early as possible if there is a conflict with a scheduled quiz or exam.

*Discussions, Assignments, Literature Review:* All other assignments submitted late will be penalized one letter grade (10% of points possible on assignment) for each day late unless prior arrangements have been made at least a week in advance of the due date (e.g., university-sanctioned event, professional obligation, etc.) or if there are documented and unplanned extenuating circumstances (e.g., personal or family emergency). Late assignments will be accepted up to 4 days late. If more than 4 days late, the assignment will not be accepted and a grade of 0 (zero) will be recorded for that assignment. Contact the instructor as early as possible if there is a conflict with a scheduled assignment, discussion, or exam.

**Extra Credit Policy**

Extra credit opportunities may be provided at the discretion of the instructor.

**Final Exam Policy**

Final examination week is part of the regular semester. Student attendance shall be consistent with University policy. The Literature Review paper takes the place of a comprehensive final exam.
Professionalism Policy
Students are expected to uphold UNK Values and any principles of community identified by the class or your group to establish the course as a supportive and inclusive learning space. You are expected to be engaged in the course, conduct yourself with integrity, and treat others with respect and inclusivity. Critical questions and discussion to advance knowledge and understanding are strongly encouraged as long as they are done in a respectful way. Students who habitually disturb the class and have been warned may suffer a reduction in their final class grade.

Academic Integrity
Academic integrity is a term that encapsulates honesty, trust, fairness, respect, and responsibility among students and faculty. You are expected to follow the University of Nebraska Student Code of Conduct. In particular,

“Students are expected to approach and complete their academic work with integrity. They are expected to do their own work, to be honest in the statements they make, to refrain from harming others, to refrain from improperly helping others, and to follow the rules. Students must read instructions and syllabi carefully so that they know what their instructors expect in terms of academic integrity.

Students who are unsure whether or not particular conduct is appropriate should ask their instructors or university administrators. Failing to act with integrity is a violation of the Code.” (Student Code of Conduct, Section IIA)

You may be asked to affirm the statement as true on submitted work: "By submitting this test or assignment, I unequivocally state that all work is entirely my own and does not violate UNK's Academic Integrity policy."

Plagiarism: It is of utmost importance in this course to understand and avoid plagiarism. Writing discussion posts and a paper critique are a core feature of this course. TurnItIn may be used for assignments submitted in Canvas. For more information and tips, please visit the TurnItIn's webpage “Preventing Plagiarism when Writing” or reach out to the instructor for guidance. If you plagiarize in your submitted work you could lose credit for the plagiarized work, fail the assignment, or fail the course. Each instance of plagiarism, classroom cheating, and other types of academic dishonesty will be addressed in accordance with the UNK Academic Integrity policy.

Students with Disabilities or Who are Pregnant
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 unkdso@unk.edu

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 Cindy Ference in Student Health, 308-865-8219. For more information regarding pregnancy rights: http://www.nwlc.org/resource/pregnant-and-parenting-students-rights-faqs-college-and-graduate-students
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. Retaliation against the student making the report, whether by students or University employees, will not be tolerated. 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

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