

# BIOLOGY 806

## Plant Ecology

### Spring 2020

Professor **Bryan Drew** (344 Bruner Hall of Science). Molecular systematics; biogeography; speciation; phylogenetics of Lamiaceae; • 308-865-8883 • [drewbt@unk.edu](mailto:drewbt@unk.edu)

#### Course Materials:

- Required Texts: Barbour et al. (Terrestrial Plant Ecology)
- Announcements and extra readings for this class will be available on Canvas
- E-mail: All students must use their UNK email (or other email) account so I can reach you.

**Schedule:** We will occasionally deviate from below...

	Date	Topic	Assignment/Reading
Week 1	Jan. 13-17	Introduction/Overview Plant physiology and function 1	Chapters 1 & 18 Soltis <sup>2</sup> 2013
Week 2	Jan. 20-24	Plant physiology and function 2/History of Plant Ecology	Chapter 2 & 15
Week 3	Jan. 27-31	History of Plant Ecology	*Cowles 1899
Week 4	Feb. 3-7	Vegetation survey methods	Chapter 9; Hobbs & Huenneke 1992
Week 5	Feb. 10-14	Species in an Ecological context /Populations	Chapters 3, 4 & 5
Week 6	Feb. 17-21	Plant succession: Primary vs. secondary Life history strategies of plants/Species interactions <b>Midterm 1</b>	Chapters 6 & 7 *Clements 1936; *Gleason 1939
Week 7	Feb. 24-28	Climate, Precipitation...	Chapter 14; Topic for Research Paper Due (via email)
Week 8	March 2-6	...Elevation, and Latitude Fire	Chapter 16; Turner et al. 1998
Week 9	March 9-13	Soils	Chapter 17; Jenny et al. 1969
Week 10	March 16-20	Nutrient cycling <b>Midterm Exam 2</b>	Chapter 13
Week 11	March 23-27	Spring Break-No Class	

Week 12	March 30- April 3	Major Vegetation Types of U.S.	Chapter 20
Week 13	April 6-10	Major Vegetation Types of U.S.	<b>Research Paper Due</b>
Week 14	April 13-17	Plant Biogeography <b>Research Presentations Due</b>	Chapter 8 van Kleunen et al 2015
Week 15	April 20-24	<b>Watch Presentations</b>	Tilman 2000
Week 16	April 27- May	Plant Ecology: Lessons from the past	Zachos et al. 2001 Parmesan 2006
Week 17	May 1-6	<b>Final Exam</b>	

**Exams:** week of February 17<sup>th</sup> & March 16<sup>th</sup>

Readings from Barbour et al. (Terrestrial Plant Ecology) unless otherwise noted.

\*These are dense! Do not try to memorize.

<b>GRADES:</b>	Midterm I	10%
	Midterm II	10%
	Final Exam	20%
	Discussion Board	30%
	Research Project	30% total
	Written:	20%
	Presentation:	10%

The grading scale used for this class is as follows:

A (92-100%), A- (90-91%), B+ (88-89%), B (83-87%), B- (80-82%), C+ (78-79%), C (73-77%), C- (70-72%), D+ (68-69%), D (63-67%), D- (60-62%), and F (below 60%).

**Plagiarism and cheating:** Anyone found plagiarizing or cheating will receive a 0 for that assignment; subsequent violations will result in referral to the Vice Chancellor for Academic Affairs for dismissal from the university.

### **Students with disabilities or those who are pregnant**

Students with disabilities or those who are pregnant are encouraged to contact me for a confidential discussion of their individual needs for academic accommodation. It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students with documented disabilities or those who are pregnant. To receive accommodation services for a disability, students must be registered with UNK Disabilities Services Coordinator, David Brandt, in the Academic Success Office, 163 Memorial Student Affairs Building, [308-865-8214](tel:308-865-8214) or by email [unkdso@unk.edu](mailto:unkdso@unk.edu). For those needing accommodation due to pregnancy, you need to visit with Student Health. The following link provides information for students and faculty 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. 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](tel:308-237-2599)

**Campus Police (or Security)** [308-865-8911](tel:308-865-8911)

**Title IX Coordinator** [308-865-8655](tel:308-865-8655)

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