

# BIOLOGY 870

## Insect Biology

### 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: The Insects: An Outline of Entomology. I will send link for PDF.
- Voicethreads, 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 may occasionally deviate from below...

	Date	Topic	Assignment/Reading*
Week 1	Jan. 13-17	Introduction; Arthropods ~Lab: Cockroach☺	Chapters 1-2 Assignment 1
Week 2	Jan. 20-24	Arthropod phylogeny/evolution External Anatomy (head)	Chapter 3; Assignment 2
Week 3	Jan. 27-31	External Anatomy (thorax and abdomen) Internal Anatomy/Morphology 1	Chapter 4; Assignment 3
Week 4	Feb. 3-7	Internal Anatomy/Morphology 2	Chapters 8 & 18; Assignment 4?
Week 5	Feb. 10-14	Development & metamorphosis	Chapter 6
Week 6	Feb. 17-21	<b>Midterm 1</b> Classification; Palaeoptera, Dermaptera Embionoptera, Zoraptera, Plecoptera	Chapters 7 & 8; Taxoboxes 1-8, 10
Week 7	Feb. 24-28	Grylloblattodea, Mantophasmatodea Orthoptera	Chapter 10; Taxoboxes 9, 12, 13
Week 8	March 2-6	Phasmatodea, Blattodea, Mantodea	Taxoboxes 11, 14, 15
Week 9	March 9-13	Isoptera/Hemipteroids	Chapter 12; Taxoboxes 16, 17, 18, 19
Week 10	March 16-20	Hemipteroids/Neuroptera/Streptiptera <b>Midterm Exam 2</b>	Taxoboxes 20, 21, 23

Week 11	March 23-27	Spring Break-No Class	
Week 12	March 30- April 3	Coleoptera	Chapter 10; Taxobox 22
Week 13	April 6-10	Hymenoptera	Chapters 12-13; Taxobox 29
Week 14	April 13-17	Trichoptera/Lepidoptera	Chapters 12-13; Taxoboxes 27 & 28
Week 15	April 20-24	Diptera, Mecoptera, Siphonoptera	Chapter 14; Taxobox 24, 25, 26
Week 16	April 27- May	Plant-insect interactions; wrap up	Chapter 11; <b>April 27<sup>th</sup>: Insect Collections Due</b>
Week 17	May 1-6	<b>Final Exam</b>	

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

\*Readings from “The Insects: An Outline of Entomology” unless otherwise noted.  
Additional readings will be assigned as the semester progresses.

**Course Description:** This course will examine the most diverse groups of macro-organisms, the insects. As part of this class you will be required to make an insect collection\*\*. This collection must have 50 different insects from 10 different orders, with 35 specimens identified to family. More information on this will follow. It shouldn't be hard!

\*\*The class cannot be passed without making an insect collection.

**Course Objectives:**

- Gain an appreciation for the incredible diversity of Arthropods, specifically insects
- Understand what the major insect groups are and how they are related
- Learn to associate morphological characters with corresponding insect orders/families

**GRADES:** Midterm I 15%  
Midterm II 15%

Final Exam	20%
Assignments and Discussion	15%
Insect Collection	35%

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.