

**VALDOSTA STATE UNIVERSITY BIOLOGY DEPARTMENT  
ECOLOGY & EVOLUTION SYLLABUS BIOL 3250 – Fall 2021**

*Instructor Name: Emily Rose, Ph.D.*

*E-mail address: erose@valdosta.edu*

*Office Location: Bailey Science Building 2211*

*Office Hours: Tuesday 3:30-5:30 /Thursday 11:00-2:00pm and by appointment*

*Lecture location: Bailey Science Center 2020*

*Lecture times: Tuesday & Thursday 2:00-3:15pm*

*Lab location: Bailey Science Center 3018 or 3019- Biology computer lab*

*Lab Sections/times: Monday 10:00am-12:50pm (sec D), Monday 2pm-4:50pm (sec E),  
Wednesday 9:30-12:20pm (sec F)*

**Course Overview:**

BIOL 3250. Ecology and Evolution. 4 Hours. Prerequisites: BIOL 1107, 1107L, BIOL 1108, 1108L, and BIOL 3200. An introduction to major topics in ecology and eQq3(n 1 35ETP04/ludi8uG(B)-2(I)13(O)-7(L)11(

## Course Learning Objectives:

This course covers a wide range of topics within the realm of ecology and evolution and allows student to develop their own ideas through a peer-reviewed research grant writing process. The laboratory portion offers students the opportunity to get directly involved with ecological experimentation and techniques, while diving into the evolutionary theory using a variety of simulations and activities.

By the end of the semester, each student will:

**Participation:** Points for participation will be given based on your preparedness and your contribution to the lecture and lab activities. This includes participating in the chat or poll sections of the lecture on BBcollaborate (if we move virtual) and also your level of helping to collect the data and work as a team member during the lab assignments. I will be taking attendance for the COVID contract tracing for all of our class meetings and points will be deducted for students who are chronically late or missing class. Points will be deducted if you come to class or lab late. If you are not prepared for lab or are disrespectful to your fellow classmates or professor you will lose participation points.

**Lecture and Lab assignments:**

## Course Policies:

### **Title IX Statement**

Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment. VSU is dedicated to creating an environment where all campus community members feel valued, respected, and included. Valdosta State University prohibits discrimination on the basis of race, color, ethnicity, national origin, sex (including sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, disability, genetic information, or veteran status, in the University's programs and activities as required by applicable laws and regulations such as Title 3 IX. The individual designated with responsibility for coordination of compliance efforts and receipt of inquiries concerning nondiscrimination policies is the University's Title IX Coordinator: the Director of the Office of Social Equity, [titleix@valdosta.edu](mailto:titleix@valdosta.edu), 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31698, 229-333-5463.

### **Academic Integrity Statement**

Cheating, plagiarism, copying and any other behavior that is contrary to University standards of behavior will not be tolerated ( [Academic Honesty Policies and Procedures](#)). Students caught violating any aspect of the Academic Integrity Code will be penalized in all cases. P

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to avoid violating such policies. By taking this course, you agree that all required course work may be subject to submission for textual similarity review to Turnitin, a tool within BlazeVIEW. For more information on the use of Turnitin at VSU see [Turnitin for Students](#).

### **Students with Disabilities**

Students requiring classroom or testing accommodations because of documented disabilities should discuss their

may diminish your academic performance and/or reduce your ability to participate in daily activities. VSU services are available and treatment does work. You can learn more about confidential mental health services available on campus at: <http://www.valdosta.edu/student/student-services/counseling-center/>. 24 hour emergency help is also available through the University Police at 229-259-5555 who will contact on-call counselors or appropriate resources for support.

### **Student Online resources**

VSU cares about student success both on and offline, and a variety of resources are available to help students both academically and personally during the Spring 2020 semester.

<https://www.valdosta.edu/health-advisory/faq.php>, Information is available there about internet access, academics, and services, among many other options, including how you can access the Brightspace Pulse app that will allow you to view BlazeVIEW on your smartphone (see <https://www.d2l.com/products/pulse/>). A website devoted to the health and wellness of VSU students can be seen at <https://www.valdosta.edu/administration/finance-admin/campus-wellness/student-resources.php>.

To help students get acclimated to online learning, the University System of Georgia created a quick



<b>10/25 &amp; 10/26</b> Lab 8: mutations in HIV (Simbio)	<b>10/26</b> CHAPTER 6(I): Behavioral Ecology- Mating Systems	<b>10/28</b> CHAPTER 6(II): Behavioral Ecology- Heritability	See Dr. Rose for help or edits. Finish first paragraphs.	<b>Postlab questions from both simbio labs by Friday (10)</b>
<b>11/1 &amp; 11/2</b> Lab 9: (Simbio) Sickle Cell & HWE	<b>11/2</b> CHAPTER 7: Ecology of Genetic Variation	<b>11/4</b> Finish lectures, Review & Design Animal Behavior lab experiments	<b>GRANT IS DUE (90) 11/3 by midnight</b> via Blazeview assignments link!	<b>Postlab questions from simbio sickle cell by Friday (5)</b>
<b>11/8 &amp; 11/9</b> Lab 10: Animal Behavioral Lab, Part II: Data Analysis and Presentations	<b>11/9</b> <b>EXAM 3: Ecological Parameters</b>	<b>11/11</b> CHAPTER 17: Biomagnification & Pollution	Work on peer review of grants.	<b>Animal behavior lab: Collected data and presentations (15)</b>
<b>11/15 &amp; 11/16</b> Lab 11: Water Quality fieldwork and testing	<b>11/16</b> CHAPTER 17: Ecotoxicology	<b>11/18</b> Chapter 21: Climate Change	<b>Grant Peer Review (15) DUE 11/17 by midnight on BV!</b>	<b>Graphs from water quality testing data on BV before Lab 12 (10)</b>
<b>11/22 &amp; 11/23</b> Lab 12: Nutrient Pollution (Simbio)	<b>11/23</b> Chasing Coral Documentary	<b>11/25</b> <b>HAPPY THANKSGIVING!</b>	<b>Record &amp; Submit your presentation video (40) DUE SUN 11/28 by midnight!</b>	<b>Postlab questions from simbio nutrient pollution by end of lab (5)</b>
<b>11/29 &amp; 11/30</b> <b>LAB FINAL</b> (on lab 8-12 content, using all lab skills for graphing and stats)	<b>11/30</b> CHAPTER 22: Conservation Biology	<b>12/2</b> Finish lectures, review for final, and any questions about grant assignments	Make changes from peer review/Dr.  <b>Final Grant (30) DUE on BV SUN 12/5 by midnight</b>	<b>Presentation Peer Review (15) DUE Tuesday 12/7 by midnight on BV</b>

**FINALS WEEK: FINAL/EXAM 4 online WEDNESDAY 12/8 2:ngL**