



## 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:

- 1) Develop a better understanding of ecological and evolutionary concepts and cultivate critical thinking skills through the scientific method.
- 2) Operate scientific instruments and equipment commonly used in biological experimentation.
- 3) Understand the basis of e
- 4)



Course Policies:  
**Non-Discrimination and**

### **Additional Academic Support**

The Academic Support Center (ASC) provides unlimited, in-person, free peer tutoring in core courses such as math, English/writing, sciences, social sciences, and languages. We also offer 8 hours of free online tutoring via Tutor.com (8 hours per student, available 24/7). Click the Free Tutoring link in any Blazeview course to make appointments. Please drop by our space in Odum Library, 2nd floor, or call 229-333-7570, email [asc@valdosta.edu](mailto:asc@valdosta.edu), or visit the website [www.valdosta.edu/asc](http://www.valdosta.edu/asc) for more information. We will have a PAL for the course that will offer biweekly sessions for extra help with

BlazeView page.

### **Experiential Learning Statement**

This course includes an Experiential Learning opportunity carefully designed to allow students to explore concepts, skills, and principles beyond the traditional classroom, lab, or studio. Students will have opportunities to make connections across campus, collaborate with others, and apply and synthesize what they have studied in the course. In addition to the experience, students reflect on what they have learned during and at the completion of the course/activity to deepen their learning. Reflections help students transfer skills

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# Spring 2024- Dr. Rose's Ecology & Evolution course (BIO3250)

**Note:** The professor reserves the right to make changes to this syllabus as necessary.

<b>Monday Lecture</b>	<b>Wednesday Lecture</b>	<b>Wednesday LAB</b>	<b>Friday Lecture</b>	<b>Research Grant</b>	<b>Assignments</b>
1/8 Syllabus	1/10 Grant Proposal Guidelines	Data			

<b>3/4</b> CHAPTER 2(I): Darwin and Evolution	<b>3/6</b> CHAPTER 2 (I): Genetic Drift & Natural Selection	Lab 7:  & mutations in HIV (Simbio)	<b>3/8</b> CHAPTER 2 (II): Intro to Evolutionary Analyses (HWE	<b>Annotated Bibliography DUE midnight 3/17 prior to Lab 8 (30)</b>	<b>Do SimBio post lab questions (10) and Lab 7 HW graphing (10) by Sunday midnight</b>
<b>3/11</b> SPRING BREAK	<b>3/13</b> SPRING BREAK	NO LAB	<b>3/15</b> SPRING BREAK		<b>Do the HWE practice problems (10)</b>