

VALDOSTA STATE UNIVERSITY BIOLOGY DEPARTMENT
ECOLOGY & EVOLUTION SYLLABUS BIOL 3250 – Spring 2022

Instructor Name: Emily Rose, Ph.D.

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Office Location: Bailey Science Building 2211

Office Hours: Tuesday 3:15-4:15, Wednesday 10-12, Thursday 3:15-4:15pm and by appointment, email for arranging virtual meetings with Zoom [link](#)

Lecture location: Bailey Science Center 2202

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

Lab location: Bailey Science Center 3018 Biology computer lab

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 sessions 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, you are not prepared for lab or are disrespectful to your fellow classmates or professors, you will lose participation points.

Lecture and Lab assignments: For most lab exercises, you will be required to perform graphing/data analysis and/or writing assignments. Some of these you will complete in lab while others will require additional work after lab. These assignments will be explained in detail during lab, and due at the beginning of the following class meeting unless otherwise noted. Instructions on how to turn in the assignment will be explained when the assignment is given (primarily submitted via the Blazeview assignments link, in the SIMBIO platform, completed in the google folder, etc.). I reserve the right to adjust the evaluation criteria in the event of extenuating circumstances. There will be a few readings for lecture that require you to contribute discussion questions prior to meeting for class.

Exams: All lecture exams 1,2,3 will be closed note and administered in person, starting at 2pm and will be due at 3:15pm when lecture ends. The Final Exam will be administered on-line and will be open note. Lab exams will be in person in the 3018 and will be open note but only for the 3 hours of lab.

Make-Up Work: L(r)-1note e 445.8 Tte but m16 re3.36 2.os.22 -1.3k Tw [(L(r)-p W60008 Tc -.Tf -20.935 .

Course Policies:

Title IX Statement

Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning

synthesize what they have studied in the course. In addition to their experience, students reflect on what they have learned during and after the completion of the course in order to deepen their learning. Reflections help students transfer skills and concepts to different contexts including 'real-world' settings. For more information about Experiential Learning please visit <https://qep.valdosta.edu/experiential-learning/>

Mental Health Awareness

As a student, you may experience a range of challenges that can interfere with learning, such as strained or violent relationships, death and loss, increased anxiety, substance use, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may diminish your academic performance and/or reduce ability to participate in daily activities. VSU services are available and treatment does not cost. You can learn more about confidential mental health services available

Spring 2022- Dr. Rose's Ecology & Evolution course (BIO3250)

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

3/14 NO LAB	3/15 SPRING BREAK	3/16 NO LAB	3/17 SPRING BREAK	Finish intro, work on proposed project sections	
3/21 Lab 8: Darwin's Finches & mutations in HIV (Simbio)	3/22 CHAPTER 6(I): Behavioral Ecology-Mating Systems	3/23 Lab 8: Darwin's Finches & mutations in HIV (Simbio)	3/24 CHAPTER 6(II): Behavioral Ecology-Heritability	See Dr. Rose for help or edits. Finish first "overview" and final "conclusions" paragraphs.	Postlab questions from both simbio labs by Sunday midnight (10)
3/28 Lab 9: (Simbio) Sickle Cell & HWE	3/29 CHAPTER 7: Ecology of Genetic Variation	3/30 Lab 9: (Simbio) Sickle Cell & HWE	3/31 Finish chapters and review for exam 3	GRANT IS DUE (90) 3/30 by midnight via Blazeview assignments link!	Postlab questions from simbio lab by Sunday midnight (5)
4/4 Lab 10: Animal Behavioral Lab, Data Analysis Review	4/5 LECTURE EXAM 3: Micro and Macro-Evolution	4/6 Lab 11: Animal Behavioral Lab, Data Analysis Review	4/7 CHAPTER 17: Pollution & Biomagnification	Work on peer review of grant proposals.	Animal behavior lab: Collect data, complete data analyses and write up (15)
4/11 Lab 11: Water Quality fieldwork and testing	4/12 CHAPTER 17: Ecotoxicology	4/13 Lab 11: Water Quality fieldwork and testing	4/14 Chapter 21: Climate Change	Grant Peer Review (15) DUE 4/13 by midnight on BV!	Graphs from water quality testing data on BV Sunday midnight (10)
4/18 Lab 12: Nutrient Pollution (Simbio)	4/19 Chasing Coral Documentary	4/20 Lab 12: Nutrient Pollution (Simbio)	4/21 CHAPTER 22: Conservation Biology	Make changes from peer review/Dr. Rose's comments.	Postlab questions from simbio nutrient pollution by end of lab (5)
4/25 LAB FINAL (on labs 8-13)	4/26 Grant presentations	4/27 LAB FINAL (on labs 8-13)	4/28 Grant presentations	Final Grant (30) DUE on BV SUN 5/1 by midnight	Presentation Peer Review (15) by 4/28 midnight on BV
	FINALS WEEK:	FINAL/EXAM 4 online WEDNESDAY 12/8 2:45-4:45			

How to Succeed in this Course

Although lab exams are open note, you will need to be able to shoot and execute all of the skills we have learned during the labs so take good notes and practice the activities before the lab exams. You will want to review what we did, why we did it, how we did it and what we found in lab.

Get ahead!!! The deadlines for every assignment this semester are listed in the syllabus calendar so there is no reason to turn in assignments late. Start assignments early to get feedback on them before they are due. Do not blame Blackboard for taking long when loading your file at midnight.

Ask questions during class or come to office hours. If you cannot make it to office hours, please email Dr. Rose and schedule a meeting for when you are free.