## 2021 Syllabus for BIOL 312: General Ecology

Lecture: Monday/Wednesday/Friday 10:00am-10:50am

Meeting ID: 965 4465 0556 Passcode: ecology

Lab: Tuesday 2:00-4:50 pm, Wick 287

Instructor: Dr. Althea A. Archer
Office: 267 Wick Science Building

320-308-4975 (office) / 218.556.8053 (cell) Email: althea.archer@stcloudstate.edu

Twitter: @aaarchmiller

Virtual Office Hours: Mon 12:00pm–2:00pm & Wed 1:00–2:00pm Office Hour Link: https://minnstate.zoom.us/j/98128037816

Meeting ID: 981 2803 7816 Passcode: Archer

The schedules and policies associated with this course may be subject to revision or change as a consequence of changing circumstances or events. Reasonable notification will be provided to students prior to any major changes in course policies or procedures.

## Course Description

Interactions between organisms and their organic and inorganic environment. Biomes, climate, populations, communities, biotic interactions, energy and nutrients, landscape and spatial ecology, biodiversity patterns.

## Learning Outcomes

You will learn to draw together elements from biology, chemistry, physics, geology, and mathematics to gain a greater understanding of ecological relationships in the natural world. The goals of the course are to:

- 1. Classify organizational levels observed in ecology
- 2. Explain how populations are regulated and how data can be collected, analyzed, and interpreted using statistics, life tables, graphs, and survivorship curves
- 3. Describe the interactions between different species and how they impact one another
- 4. Illustrate the major forces responsible for community structure, how community structure can be represented by food webs, and how communities change in both space and time
- 5. Discuss patterns and measurements of biodiversity and predict the consequences of continued species loss
- 6. Accurately and effectively document field observations with field notes and data collection
- 7. Link field observations with key ecological concepts and relevant scientific literature
- 8. Execute the scientific method using reproducible research methods
- 9. Effectively communicate scientific research results through oral and written presentations

## Required Textbooks

- SimUText Ecology
- Each person must sign up for an account with the free Open Science Framework at https://osf.io/
- Recommended: McMillan, V.E. 2012+. Writing Papers in the Biological Sciences. Bedford/St. Martin's
- Recommended: Molles, Jr., M.C. Ecology: Concepts and Applications.

CONTACT ME: The best ways to get ahold of me are by visiting my virtual office hours or by emailing me. I will always try to get back to emails within 48 hours. I get a lot of emails, so please begin emails with "BIOL 312" so that I can prioritize your email. Also, I included my personal cell phone number above so that you can get ahold of me during lab if there is an emergency.

REGULAR ATTENDANCE AND PARTICIPATION IN CLASS IS CRITICAL TO YOUR SUCCESS. This course will be offered in a hybrid format. Lectures will be convened online via synchronous Zoom meetings, and the textbook assignments will be conducted through an interactive online textbook. Lectures slides and videos will be posted to D2L. The first five labs will require in-person activities in an outdoor setting. You will be working with small groups during each lab.

In order to have an excused absence, you must notify me prior to the beginning of class of your absence.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES: SCSU is an affirmative action, equal opportunity employer and educator. We are committed to a policy of nondiscrimination in employment and education opportunity and work to provide reasonable accommodations for all persons with disabilities. Accommodations are provided on an individualized, as-needed basis, determined through appropriate documentation of need. Please contact Student Accessibility Services (SAS), sas@stcloudstate.edu or 320-308-4080, Centennial Hall 202, to meet and discuss reasonable and appropriate accommodations.

RESPECT FOR DIVERSITY: It is my intent that students from diverse backgrounds and perspectives be wellserved by this course, and that the diversity that students bring to this class be viewed as a resource. Please let me know ways to improve the effectiveness of the course for you, personally, or for other students or student groups. As a student in this class, you are required to treat other members of the class with respect and kindness. Diverse perspectives are welcome and disagreeing is fine. However, disrespectful, rude, or exclusive behavior will not be tolerated.

#### GRADES

Category	Item	Details	points	%
Assignments	Participation	$55 \times 1$ pt each; drop lowest 5	50	5.0%
	SimUText Readings	35 x 2pts each	70	7.0%
	Reading Quizzes	$37 \times 2$ pts each; drop lowest 2	70	7.0%
Lecture Exams	Exam 1	Sept. 29; Unit 1 material	140	14.0%
	Exam 2	Nov. 5; Unit 2 material	140	14.0%
	Final Exam	Dec. 15; 78% Unit 3; 22% Units 1&2	180	18.0%
Laboratory	Data Sheets	Aug. 24, 31, Sept. 7, 14, 21	50	5.0%
	Data Appendix	Oct. 5	25	2.5%
	Lightning Talk	Nov. 2	100	10.0%
	Research Poster Draft	Nov. 16	50	5.0%
	Research Poster Final	Nov. 30	100	10.0%
	Peer Feedback	various dates	25	2.5%
Total			1000	100.0%

PARTICIPATION will be determined by your completion of zoom polls, surveys, and/or homework assignments that will pop up during Zoom lectures and labs. Each of these activities will be graded on a pass/fail basis, and you automatically will get 6 free missed participation scores.

SIMUTEXT READINGS are from the interactive textbook for this class, and each module has integrated, feedbackfocused questions followed by a series of graded questions. You are expected to have read that day's SimUText material prior to coming to class, and will be quizzed on each reading assignment.

You will be graded for reading completion (but not on the graded questions) based on the proportion of the reading completion questions you have filled out for each Unit's SimUText sections by 11:30pm the night before exam review sessions.

SimUText reading completion will be graded for each unit by:

	Percentage	Grade
<ul><li>September 26 at 11:30pm for Unit 1 material</li></ul>	≥ 99	A+
	92-98.9	Α
<ul> <li>November 2 at 11:30pm for Unit 2 material</li> </ul>	90-91.9	A-
·	89-89.9	B+
<ul> <li>December 9 at 11:30pm for Unit 3 material</li> </ul>	82-88.9	В
	80-81.9	B-
You may work through the SimUText material with your peers; how-	79-79.9	C+
	72-78.9	C
ever, mastering the material is your individual responsibility. Use the	70-71.9	C-
graded questions as a tool to check your understanding. They will not be 69-69.9		
60.68.0		
graded. Your lowest 1 SimUText grades will be automatically dropped.		

READING QUIZZES will be very short, low-stakes checks to make sure you're staying up-to-date on reading assignments. They will be conducted at the beginning of each Zoom lecture and implemented with Zoom polls. See the schedule for specific material for each day's quiz. Your lowest 3 quiz scores will be automatically dropped. If you have more than 3 excused absences over the course of the semester, I will provide alternate assignments to replace missing quiz grades.

LECTURE EXAMS will be of variable format, including—but not limited to—multiple choice, true/false, matching, short answer, and brief essays. All exams will be somewhat cumulative but will primarily focus on the associated lecture and SimUText Unit material (see table above); in addition, the final exam will be  $\sim$ 22% cumulative. Exams will be proctored through D2L.

LABORATORY grades will be based around a semester-long group research project that will begin with collecting data in the field, continue with data entry, organization, and analysis, and culminate in oral and written presentations.

- Guided data sheets will be completed in the field during the first 5 labs due by end of lab each day.
- Data appendix will be an html document that includes summary statistics about each of the variables relevant to your research project and dataset. A template and further explanation will be provided later in the semester.
- Lightning talks will be given during lab. Your group will be allowed 3 slides and 5 minutes to present the main goal, result, and conclusion of your research project. You will be providing feedback to other groups, which will go toward your "Peer Feedback" grade, and you will be expected to incorporate feedback into your final poster presentation. I will provide a grading rubric later this semester.

- Research poster must include title, introduction, methods, results, discussion, conclusions, and literature cited. A rubric for posters will be provided later this semester. Every group will present their poster draft in the penultimate lab session. You will be providing feedback to other groups, which will go towards your "Peer Feedback" grade, and you will be expected to incorporate feedback into your final poster.
- The final research poster presentation will be open to friends and family outside of the class.
- Your peer assessment grade will include the quality of your formal feedback during the lightning talks and the draft poster presentation (33% each, 66% total) combined with the grade that your group mates give you at the culmination of the semester (34%).

#### St. Cloud's Statement on Covid-19

Given the increased transmission of COVID-19 variants, such as the delta variant, and the risk it poses to the entire community, (see CDC "Delta Variant: What We Know About the Science") we will be adhering to the following masking policies in our classroom:

- You must wear a face mask/covering in our classroom at all times.
- If you are unable to wear a face mask or covering for medical reasons, please contact the Student Accessibility Services Office for an accommodation.
- I encourage you to wash your hands frequently and use the hand sanitizers available to you.
- If you are not feeling well, be sure to call the SCSU Medical Clinic for assistance at (320) 308-3193 or email myhealthservices@stcloudstate.edu
- If you are concerned that you might have COVID-19, please get tested as soon as possible. Testing resources are available on campus through the SCSU Medical Clinic and through the State of Minnesota's Vault: No-Cost COVID Testing For All Minnesotans

### Academic Integrity

As a student at St. Cloud State University and as a student in this class, you are expected to fully and properly acknowledge the work of others. Every instance of plagiarism will be reported, as per the policies of the college, but please do not hesitate to ask me in advance if you think something might be questionable or if you are unsure about what is considered to be plagiarism. I am happy to help, as long as you inquire in advance!

Academic misconduct includes but is not limited to:

- cheating: using a resource other than one's own work to answer questions;
- plagiarism: misrepresenting another's ideas as one's own or not giving credit to the creator of a work;
- falsification: submitting falsified or fabricated information;
- facilitating others' violations: knowingly permitting or facilitating the dishonesty of others;
- impeding: placing barriers in the way of others' academic pursuits'

Instances of academic dishonesty will result in either a failing grade for that activity or for the course, according to the perceived intent and extent of the instance(s) of academic dishonesty. All academic integrity violations will be reported.

# Course Schedule (version dated December 3, 2021)

Aug 23rd   Topic: Photo   Lab: Campus Tour & Introduction to   Ecology   Reading Quiz:   Biogeography 1	Monday	Tuesday	Wednesday	Thursday	Friday
descriptions  Reading Quiz: Survey (pass/fail)  Methods Due: Data Sheet 1  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Serolution for Ecology Reading Quiz: Evolution for Ecology Reading Quiz: Evolution for Ecology Reading Quiz: Evolution 1  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 2  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 2  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 2  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 2  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 2  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 2  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Biogeography 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Biogeography 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Behavior 1  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Biogeography 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Behavior 2  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Behavior 2  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Behavior 2  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Behavior 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Behavior 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Physiological Ecology Reading Quiz: Physiological Ecology Reading Quiz: Physiology 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Physiology 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Physiology 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Physiology 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Physiology 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Physiology 3  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Physiology 3  Sep 1st  Topic: Evolution Sep 1st  Topic: Evolution for Ecology Reading Quiz: Reading Quiz: Physiology 3  Sep 1st  Topic: Evolution Sep 1st  Topic: Evoluti	Aug 23rd	24th	25th	26th	27th
Ecology   Reading Quiz:   Survey (pass/fail)   Methods   Due: Data Sheet 1   Syllabus   Singeography 1	Topic: Photo	Lab: Campus Tour	Topic:		Topic:
Survey (pass/fail)  Due: Data Sheet 1  Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 1  Stab: St. John's Arboretum Reading Quiz: Evolution 2  Evolution 2  Stab: Reading Quiz: Evolution 3  Stab: Sep 1st  Topic: Evolution for Ecology Reading Quiz: Evolution 1  Stab: Rockville County Park Due: Data Sheet 3  Singeography 3  Stab: Topic: Evolution For Ecology Reading Quiz: Evolution 2  Stab: Rockville County Park Due: Data Sheet 3  Singeography 3  Stab: Topic: Evolution For Ecology Reading Quiz: Biogeography 3  Stab: Topic: Behavioral Ecology Reading Quiz: Biogeography 3  Stab: Topic: Biome Ecology Reading Quiz: Behavior 2  Stab: Warner Lake Physiological Ecology Reading Quiz: Physiology 2  Reading Quiz: Physiology 3  Reading Quiz: Physiology 3  Reading Quiz: Physiology 3  Reading Quiz: Physiology 3  Stab: Sep 1st Stopic: Evolution For Ecology Reading Quiz: Behavior 3  Stab: Sep 1st Stopic: Evolution For Ecology Reading Quiz: Behavior 3  Stab: Sep 1st Stab: Solution For Ecology Reading Quiz: Behavior 2  Stab: Warner Lake Physiological Ecology Reading Quiz: Physiology 3  Stab: Sep 1st Topic: Evolution For Ecology Reading Quiz: Physiology 3  Reading Quiz: Physiology 3  Stab: Sep 1st Topic: Evolution For Ecology Reading Quiz: Reading Quiz: Physiology 3  Stab: Sep 1st Topic: Evolution For Ecology Reading Quiz: Polici: Evolution For Ecology Reading Quiz: Polici: Evolution For Ecology Reading Quiz: Polici: Evolution For Ecology Reading Quiz: Physiology 3  Stab: Sep 1st Topic: Evolution For Ecology Reading Quiz: Polici: Evolution Fo	descriptions	& Intro to	Introduction to		Introduction to
Due: Data Sheet 1   Syllabus   Biogeography 1	Reading Quiz:	Experimental	Ecology		Ecology
30th 31st	Survey (pass/fail)	Methods	Reading Quiz:		Reading Quiz:
Topic: Evolution for Ecology Reading Quiz: Evolution 1  Oth No class  Lab: Rockville County Park Due: Data Sheet 3  Reading Quiz: Biogeography 3  Due: Data Sheet 4  Reading Quiz: Biogeography 4  Due: Data Sheet 5  Cology Reading Quiz: Biogeography 4  Due: Data Sheet 5  Cology Reading Quiz: Biogeography 4  Due: Data Sheet 5  Cology Reading Quiz: Biogeography 4  Due: Data Sheet 5  Cology Reading Quiz: Biogeography 4  Due: Data Sheet 5  Cology Reading Quiz: Biogeography 4  Due: Data Sheet 5  Cology Reading Quiz: Biogeography 4  Due: Data Sheet 5  Cology Reading Quiz: Biogeography 4  Due: Data Sheet 5  Cology Reading Quiz: Physiological Ecology Reading Quiz: Physiology 2  Physiology 3  Cology Reading Quiz: Physiology 3		Due: Data Sheet 1	Syllabus		Biogeography 1
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Evolution 1  6th  No class  Lab: Rockville County Park Due: Data Sheet 3  Evolution 2  Cology Reading Quiz: Behavior 1  13th  Topic: Behavior 1  14th  Topic: Behavior 1  15th  Topic: Behavior 1  16th  Topic: Behavior 1  17th  Topic: Behavior 1  17th  Topic: Biome Ecology Reading Quiz: Behavior 2  20th  Topic: Data Sheet 4  Topic: Biogeography 4  21st  Topic: Behavior 2  22nd  23rd  24th  Topic: Physiological Ecology Reading Quiz: Physiological Ecology Reading Quiz: Physiological Ecology Reading Quiz: Physiology 2  Reading Quiz: Physiology 3  Evolution 3  10th  Topic: Behavioral Ecology Reading Quiz: Physiology Reading Quiz: Physiological Ecology Reading Quiz: Physiology 3	for Ecology	Arboretum	for Ecology		for Ecology
6th No class	Reading Quiz:	Due: Data Sheet 2	Reading Quiz:		Reading Quiz:
Lab: Rockville   County Park   For Ecology   Reading Quiz:   Behavioral   Ecology   Reading Quiz:   Behavior 1	Evolution 1		Evolution 2		Evolution 3
County Park Due: Data Sheet 3  Reading Quiz: Biogeography 3  13th  14th  15th  15th  16th  17th  Topic: Biome Ecology Reading Quiz: Behavior 1  13th  Topic: Behavioral Lab: Kraemer Lake Park Behavior 2  20th  Topic: Data Sheet 4  22nd  23rd  24th  Topic: Physiological Ecology Reading Quiz: Physiological Ecology Reading Quiz: Physiological Ecology Reading Quiz: Physiological Ecology Reading Quiz: Physiology 2  Reading Quiz: Physiology 3  Ecology Reading Quiz: Physiology 3  Ecology Reading Quiz: Physiology 3	6th	7th	8th	9th	10th
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Reading Quiz: Behavior 2  Due: Data Sheet 4 Reading Quiz: Biogeography 4  20th  Topic: Physiological Ecology Reading Quiz: Physiological Ecology Reading Quiz: Physiology 2  Due: Data Sheet 4 Reading Quiz: Physiology 1  22nd 23rd  Topic: Physiological Physiological Ecology Reading Quiz: Physiology 3  Reading Quiz: Physiology 3  Reading Quiz: Physiology 3  Reading Quiz: Physiology 3	Topic: Behavioral	Lab: Kraemer	Topic: Biome		Topic: Biome
Behavior 2  Biogeography 4  21st  22nd  23rd  24th  Topic: Physiological Ecology Reading Quiz: Physiology 2  Biogeography 4  23rd  24th  Topic: Physiological Physiological Ecology Reading Quiz: Physiology 3  Biogeography 4  23rd  24th  Topic: Physiological Physiological Ecology Reading Quiz: Physiology 3  Ecology Reading Quiz: Understanding Experimental	Ecology	Lake Park	Ecology		Ecology
20th  Topic: Physiological Ecology Reading Quiz: Physiology 2  21st  22nd  23rd  24th  Topic: Physiological Physiological Ecology Reading Quiz: Physiology 3  23rd  24th  Topic: Physiological Ecology Reading Quiz: Physiology 3  Ecology Reading Quiz: Understanding Experimental	Reading Quiz:	Due: Data Sheet 4	Reading Quiz:		Reading Quiz:
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Physiological Ecology Reading Quiz: Physiology 2  Park Due: Data Sheet 5  Ecology Reading Quiz: Physiology 2  Physiology 3  Physiological Ecology Reading Quiz: Physiology 3  Ecology Reading Quiz: Understanding Experimental	20th	21st	22nd	23rd	24th
Ecology Reading Quiz: Physiology 2  Due: Data Sheet 5 Ecology Reading Quiz: Physiology 3  Ecology Reading Quiz: Physiology 3  Understanding Experimental	Topic:	Lab: Warner Lake	Topic:		Topic:
Reading Quiz: Physiology 2  Reading Quiz: Physiology 3  Reading Quiz: Understanding Experimental	Physiological	Park	Physiological		Physiological
Physiology 2 Physiology 3 Understanding Experimental	Ecology	Due: Data Sheet 5	Ecology		Ecology
Experimental	Reading Quiz:		Reading Quiz:		Reading Quiz:
	Physiology 2		Physiology 3		Understanding
Design					Experimental
					Design
27th         28th         29th         30th         Oct 1st	27th	28th	29th	30th	Oct 1st
Topic: Wrap-up Lab: Experimental Exam 1 Topic: Primary	Topic: Wrap-up	Lab: Experimental	Exam 1		Topic: Primary
and review Design Productivity	and review	Design			Productivity
No Reading Quiz:	No Reading Quiz				Reading Quiz:
Physiology 4					Physiology 4

Monday	TUESDAY	Wednesday	Thursday	FRIDAY	
4th	5th	6th	7th	8th	
Topic: Primary	Lab: Open Lab	Topic: Secondary		Topic: Secondary	
Productivity	Due: Data	Productivity		Productivity	
Reading Quiz:	Appendix	Reading Quiz:		Reading Quiz:	
Ecosystems 1-2		Ecosystems 3-4		Community 3-4	
11th	12th	13th	14th	15th	
Topic: Nutrient	Lab: Data	Topic: Nutrient		Topic: Nutrient	
Ecology	Analysis	Ecology		Ecology	
Reading Quiz:		Reading Quiz:		Reading Quiz:	
Nutrients 1-2		Nutrients 3		Nutrients 4	
18th	19th	20th	21st	22nd	
Topic: Life History	Lab: Open Lab	Topic: Life History		<b>Topic:</b> Life History	
Reading Quiz: Life		Reading Quiz: Life		Reading Quiz: Life	
History 1-2		History 3		History 4	
25th	26th	27th	28th	29th	
Topic: Population	Lab: Presentation	Topic: Population		Topic: Population	
Growth	Skills	Growth		Growth	
Reading Quiz:		Reading Quiz:		Reading Quiz:	
Population Lab		Populations 1		Populations 2	
Nov 1st	2nd	3rd	4th	5th	
Topic: Population	Lab: Lightning	Topic: Wrap-up		Exam 2	
Growth	Talks	and review			
Reading Quiz:	Due: Lightning	No Reading Quiz			
Populations 3	Talk Slides				
8th	9th	10th	11th	12th	
No class	Lab: Open Lab	Topic: Succession		Topic:	
		Reading Quiz:		Competition	
		Community 1-2		Reading Quiz:	
				Competition 1	
15th	16th	17th	18th	19th	
Topic:	Lab: Draft Poster	Topic:		Topic:	
Competition	Presentation	Competition		Competition	
Reading Quiz:	Due: Draft Poster	Reading Quiz:		Reading Quiz:	
Competition 2		Competition 3		Keystone Predator	
22nd	23rd	24th	25th	26th	
No class	No class	No class	No class	No class	
No class	No class	No class	No class	No class	

Monday	Tuesday	Wednesday	Thursday	FRIDAY
29th	30th	Dec 1st	2nd	3rd
Topic:	Lab: Open Lab	Topic:		Topic:
Exploitation	Due: Final Poster	Exploitation		Exploitation
Reading Quiz:	for printing	Reading Quiz:		Reading Quiz:
Exploitation 1		Exploitation 2		Exploitation 3
6th	7th	8th	9th	10th
No class	Topic: Island	No class		No class
	Biogeography,			
	Review			
	Reading Quiz:			
	Biogeography 2			
13th	14th	15th	16th	17th
		FINAL EXAM		
		9:55am - 12:10pm		