

**BZ111 Biology of Animals
Laboratory Course Syllabus Fall 2020**

Welcome to the BZ111 lab!

Lab Manual: The text, *Biology of Animals – BZ111 Lab Manual (3rd edition)*, by Donna Weedman, Bluedoor Publishing, is **required**. The text, *A Photographic Atlas for the Zoology Laboratory* (8th edition) by Van De Graaf, *et al.*, is highly suggested (an older edition of the atlas is fine). The lab manual and atlas are available at the CSU Bookstore <https://www.bookstore.colostate.edu/SelectTermDept> .

Because of limits on the number of people who can fit in the lab rooms, we have split the class into two halves who have different schedules. Each week, half of you will attend lab in person, and half will do an online version of the lab. Because of the challenges in arranging these hybrid schedules, your in-person labs will last two hours, starting at the time the lab session is scheduled (example: if you are scheduled for a lab 2-4:50pm MST, you would physically show up at 2 pm). The online labs will be asynchronous (you can work on them anytime as long as you complete them by the deadline). Your TA will be available through a Zoom meeting for the last fifty minutes of the scheduled lab time for questions about labs. You are not required to attend these Zoom meetings, but they can be super helpful if you are struggling with the material.

We have tailored announcements, calendar events, and due dates in Canvas to each half of the lab, so please set your Canvas notifications to receive these essential updates for your correct section! Adjust your notification preferences at <https://community.canvaslms.com/docs/DOC-10624>

Laboratory attendance for in-person labs is required. There will be **no make-up labs, quizzes, or pre-lab assignments**. We have established a grading policy that allows you to miss two in person lab sessions and one online lab without grade penalty, as we drop the two lowest quizzes from your grade and the three lowest pre-lab assignments.

Note: BZ111 is a separate course from BZ110, for which you will receive an independent grade. **This course is intended as a course for science majors** so be aware that material will be taught and grading will be done with this expectation.

For the in-person labs, you are responsible for cleaning up your work area and returning supplies to their appropriate location. Please make sure you complete the following items before leaving the laboratory:

1. All glassware you use washed and returned to the appropriate location
2. All used slides washed, **dried**, and returned to the appropriate box
3. Your bench top (work area) wiped down with paper towel and cleaning solution
4. All dissecting equipment washed, **dried**, and returned to the appropriate location
5. Any trash you generate must be disposed of properly (in the trash receptacle or glass waste container provided.)
6. Follow TA guidelines on how to sterilize lab equipment and space.

NO FOOD OR DRINK IS ALLOWED IN THE LABORATORY!

Cell phones and other electronic devices must be turned OFF during the lab period!

Face coverings: Bring a mask to each in-person class meeting. In your first week, the TA will provide you with a face shield that you must bring back each week. If you do not have your face shield AND mask, you will not be permitted to enter the lab room. Between each use, wash your face shield with warm water and soap. Note, university policies for personal safety are updated as the Covid19 situation evolves.

Important information for Students: All students should fill out a student-specific symptom checker each day before coming to class

(<https://covidrecovery.colostate.edu/daily-symptom-checker/>). In addition, please utilize the symptom checker to report symptoms, if you have a positive test, or exposed to a known COVID contact. If you know or believe you have been exposed or are symptomatic, it is important for the health of yourself and others that you report it through this checker. You will not be in trouble or penalized in any way for reporting. If you report symptoms or a positive test, you will receive immediate instructions on what to do and CSU's Public Health Office will be notified. Once notified, that office will contact you and most likely conduct contact tracing, initiate any necessary public health requirements and/or recommendations and notify you if you need to take any steps.

For the latest information about the University's response, please visit the **CSU COVID-19 site** (<https://covidrecovery.colostate.edu/>).

Grading Policy

Your laboratory grade will be based on quizzes (each week you have an in-person lab) and weekly pre-lab assignments. The point break-down will be as follows:

Weekly quizzes (during in person labs) 5 (highest of 7) @ 20 pts each = 100 pts

Pre-lab assignments 8 (highest of 11) @ 5 pts each = 40 pts

Total possible points: 140 pts

Quizzes: Quizzes (worth 20 pts each) will occur on the weeks that you attend lab in person. Since you attend lab in person every two weeks, each quiz will cover the previous two weeks worth of material. For example, the second time you are in lab in person, you will have a quiz that covers Scientific Method (Exercise 1) and Using the Microscope (Exercise 6). Quizzes will include lots of visuals – photos, diagrams, and slides that you viewed in-person on in the PowerPoints for online material.

Pre-lab assignments (worth 5 points each) will be available the week before your lab and are due at the time your lab session begins. For example, if your lab is scheduled for Tuesday at 11 AM, your pre-lab assignment is due Tuesday at 11 AM. No late assignments will be accepted. Your pre-lab assignments will not be graded for in-person labs if you do not attend the lab. These assignments are open book and open note, but please complete them on your own without consulting classmates. They will help you prepare for the lab that day as well as the quizzes. Since time spent in lab is decreased due to COVID, TA's won't be able to spend as much time teaching the material so that you can focus on performing the lab instead. You'll need to be familiar with the information before your lab time.

Instructional PowerPoints and slide shows: For the weeks that you attend lab online, the lab information will be covered by a PowerPoint and slide show (occasionally videos) that will be posted on your Canvas home page. These will remain up throughout the semester.

Drop-in hours: This whole process will be challenging so it's even more important to keep in touch with your TA. TA's will be available online during their scheduled drop-in hours through a Zoom meeting. Participation in these drop-in hours are not required, but attending will likely increase your quiz scores and understanding of the material. Think of drop-in hours as free tutoring with your TA! Remember that TAs will also be available during the third hour of every scheduled lab section in a Zoom meeting as well so that you can ask questions as you work through the lab material.

Outside of lab time and drop-in hours, email your TA to ask questions. Often, TA's will reply quickly, but they may have a 24-hour turnaround for emails during the Monday-Friday work week and may not reply to emails sent on the weekend until Monday – TAs are dealing with the same events that you are and may have other obligations. Please work in advance when possible so you can ask the majority of your questions during the lab time or drop-in hours.

There will be no extra credit given in this course.

Academic misconduct of any kind will not be tolerated and must be reported to student judicial affairs. We adhere to the CSU policies on academic integrity and classroom behavior which can be found in the CSU General Catalog for 2019-2020 at: <http://catalog.colostate.edu/general-catalog/policies/students-responsibilities/#academic-integrity>

If you have questions about BZ111 labs, contact your TA first. If you have any general questions or concerns regarding the BZ111 Laboratory, you may contact the Laboratory Coordinator:

Donna Weedman (204 Yates; 491-4061; donna.weedman@colostate.edu)
(include your name, course number, lab section number, and lab instructor's name in emails or phone messages)

GT PATHWAYS

For transferring students, successful completion with a minimum C– grade guarantees transfer and application of credit in this GT Pathways category. For more information on the GT Pathways program, go to <http://highered.colorado.gov/academics/transfers/gtpathways/curriculum.html>.

Laboratory Schedule for BZ111 -- Attributes of Living Systems, Fall 2020

Canvas includes list of due dates for weekly pre-lab assignments

<u>Week #/ Date</u>	<u>Topic</u>	<u>Exercises in Lab Manual</u>
1: 8/25 – 8/27	No labs first week	
2: 9/1-9/3	Face to Face: Use of the Microscope Online: Scientific Method and Experimental Design	Ex. 6 Ex. 1
3: 9/8-9/10	Face to Face: Use of the Microscope Online: Scientific Method and Experimental Design	Ex. 6 Ex. 1
4: 9/15- 9/17	Pre-lab assignment due at start of lab (face to face AND online) Face to Face: Mitosis and Meiosis w/quiz on Ex. 1,6 Online: Mendelian Genetics	Ex. 3 Ex. 4
5: 9/22- 9/24	Pre-lab assignment due at start of lab (face to face AND online) Face to Face: Mitosis and Meiosis w/quiz on Ex. 1,6 Online: Mendelian Genetics	Ex. 3 Ex. 4
6: 9/29 – 10/1	Pre-lab assignment due at start of lab (face to face AND online) Face to Face: Porifera and Cnidaria w/quiz on Ex. 3,4 Online: Population Genetics	Ex. 7 Ex. 5
7: 10/6 -10/8	Pre-lab assignment due at start of lab (face to face AND online) Face to Face: Porifera and Cnidaria w/quiz on Ex. 3,4 Online: Population Genetics	Ex. 7 Ex. 5
8: 10/13-10/15	Pre-lab assignment due at start of lab (face to face AND online) F2F: Platyhelminthes, Nematoda, Annelida w/quiz on Ex. 5,7 Online: Mollusca	Ex. 8 Ex. 9
9: 10/20-10/22	Pre-lab assignment due at start of lab (face to face AND online) F2F: Platyhelminthes, Nematoda, Annelida w/quiz on Ex. 5,7 Online: Mollusca	Ex. 8 Ex. 9
10: 10/27- 10/29	Pre-lab assignment due at start of lab (face to face AND online) Face to Face: Arthropoda w/quiz on Ex. 8, 9 Online: Echinodermata	Ex. 10 Ex. 11
11: 11/3-11/5	Pre-lab assignment due at start of lab (face to face AND online) Face to Face: Arthropoda w/quiz on Ex. 8,9 Online: Echinodermata	Ex. 10 Ex. 11
12: 11/10-11/12	Pre-lab assignment due at start of lab (face to face AND online) Face to Face: Chordata & pig dissection w/quiz on Ex. 10,11 Online: Vertebrate Behavior and Diversity	Ex. 12 and 14 Ex. 13
13: 11/17-11/19	Pre-lab assignment due at start of lab (face to face AND online) Face to Face: Chordata & pig dissection w/quiz on Ex. 10,11 Online: Vertebrate Behavior and Diversity	Ex. 12 and 14 Ex. 13
14: 11/24- 11/26	No labs – fall break	
15: 12/1 – 12/3	Pre-lab assignment due at start of lab	
16: 12/8-12/10	all labs online: Isle Royale w/online quiz on Ex. 12, 13, 14 online quiz on Ex. 15	Ex. 15