

Welcome to the BZ111 Summer 2023 lab!

General Course Information

GTA: Bri Risk

Email: bri-risk@colostate.edu

Office hours information: TBA

Lab Manual: The text, *Biology of Animals – BZ111 Lab Manual (4th edition)*, by Alpana Damle, is **required**. It is available at the CSU Bookstore and Ram's Bookstore.

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.

Laboratory attendance: In-person lab attendance is mandatory – this lab is not offered online this semester. There will be **no make-up labs, quizzes, or practicals**. Be aware that in-person lab absences, especially during the condensed 4-week summer session, are very difficult to recover from, due to the amount of material missed.

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.)

NO FOOD OR DRINK IS ALLOWED IN THE LABORATORY!

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

CSU COVID Guidance:

All students are expected and required to report any COVID-19 symptoms to the university immediately, as well as exposures or positive tests from a non-CSU testing location. If you suspect you have symptoms, or if you know you have been exposed to a positive person or have tested positive for COVID, are directed to fill out the COVID Reporter (<https://covid.colostate.edu/reporter/>). If you know or believe you have been exposed, including living with someone known to be COVID positive, or are symptomatic, it is important for the health of yourself and others that you complete the online COVID Reporter. Do not ask your instructor to report for you. If you do not have internet access to fill out the online COVID-19 Reporter, please call (970) 491-4600. You may also report concerns in your academic or living spaces regarding COVID exposures through the COVID Reporter. You will not be penalized in any way for reporting. When you complete the COVID Reporter for any reason, the CSU Public Health office is notified. Once notified, that office will contact you and, depending upon each situation, will conduct contact tracing, initiate any necessary public health requirements, and notify you if you need to take any steps. For the latest information about the University's COVID resources and information, please visit the CSU COVID-19 site: <https://covid.colostate.edu/>. University policies for personal safety are updated as the Covid-19 situation evolves. Be aware that a lab TA can require students to leave lab if they appear extremely ill and pose an issue of spread of a contagious disease.

Your laboratory grade will be based on 3 quizzes and 3 lab practicals. Your weekly practical/quiz will not be graded for that day if you do not complete all of the lab exercises including filling in your lab manual and cleaning up your work area at the end of the lab. The point break-down will be as follows:

Quizzes

3 @ 20 pts each = 60 pts.

Lab practicals

3 @ 30 pts each = 90 pts.

Total possible points: 150 pts.

There will be **no extra credit** given in this course.

The **quizzes** (worth 20 pts each) will include 15 points relevant to the material you covered the previous week plus 3 points of material you will be covering in the current week's lab.

Therefore, you should read and become familiar with the introductory material and laboratory exercises each week before coming to class. Two of the 20 quiz points will be based upon completion of the lab manual. Quizzes will be given online on Canvas. They will become available 24 hours prior to your lab period. Once you start taking a quiz, you will have 60 minutes to complete it. If you miss the quiz, you will not be permitted to take it late or make it up at another time.

The **lab practicals (worth 30 points each)** will be making use of a microscope slide or a sample and will be asking you to identify and/or label structures, functions or make a comparison. Lab practicals will be timed and given online on Canvas. Each lab practical will become available 24 hours prior to the start of your lab period. Once you start taking the practical, you will have 90 minutes to take it.

If you do not participate in lab, **your quiz or practical from that day will not be graded.** Plan to be in the lab room the full time (1:15 p.m.- 4:25 p.m.). Lab quizzes and practicals will not be proctored, and you will have the opportunity to sign an Honor Pledge before taking any quiz or practical.

Instructional PowerPoints and slide shows: For your weekly labs, the lab information will be delivered in-person. In addition, PowerPoint videos and slide shows covering that topic will be posted on your Canvas home page. These will remain up throughout the semester. Please be advised that these videos and slide shows are designed to supplement the in-person learning, not replace it.

Office hours: Outside of lab time and office hours, email your TA to ask questions. Often, your TA 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 office hours.

Academic dishonesty 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 2022-2023 at <http://catalog.colostate.edu/general-catalog/policies/students-responsibilities/#academic-integrity>

If you have any general questions or concerns regarding the BZ111 Laboratory, you may contact the BZ Laboratory Coordinator: Dr. Alpna Damle (apdamle@colostate.edu).

Lab Schedule Summer 2023

<u>Date</u>	<u>Topic</u>	<u>Exercise in Lab Manual</u>
M 5/15	Scientific Method and Experimental Design Using the Microscope: Cells and Protists	Ex. 1 Ex. 6
W 5/17	Quiz Mitosis and Meiosis Mendelian Genetics	Ex. 3 Ex. 4
M 5/22	Quiz Population Genetics Porifera/Cnidaria	Ex. 5 Ex. 7
W 5/24	Quiz Platyhelminthes, Nematoda, Annelida	Ex. 8
M 5/29	No lab – Memorial Day	
W 5/31	Practical Mollusca Arthropoda	Ex. 9 Ex. 10
M 6/5	Practical Echinodermata Chordata	Ex. 11 Ex. 12
W 6/7	Practical Fetal Pig dissection	Ex. 14

Need Help?

CSU is a community that cares for you. If you are struggling with drugs or alcohol and/or experiencing depression, anxiety, overwhelming stress, or thoughts of hurting yourself or others please know there is help available. Counseling Services has trained professionals who can help. Contact 970-491-6053 or go to <http://health.colostate.edu>. If you are concerned about a friend or peer, tell someone by calling 970-491-1350 to discuss your concerns with a professional who can discreetly connect the distressed individual with the proper resources (<http://safety.colostate.edu/tell-someone.aspx>). Rams take care of Rams. Reach out and ask for help if you or someone you know is having a difficult time.

GT PATHWAYS

The Colorado Commission on Higher Education has approved **BZ111** for inclusion in the Guaranteed Transfer (GT) Pathways program in the **GT-SC2** category. 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 <https://cdhe.colorado.gov/guaranteed-transfer-gt-pathways-general-education-curriculum>

A. Content Criteria: Content Competencies pertain to the knowledge base, methods, concepts, and content-related learning that students should garner from participation in a course. Students should be able to demonstrate acquisition of such content-focused learning as a result of participation in courses in each category of the AUCC. The **laboratory** (either a combined lecture and laboratory, or a separate laboratory tied to a science lecture course) content of a science course:

- a. Perform hands-on activities with demonstration and simulation components playing a secondary role.
- b. Engage in inquiry-based activities.
- c. Demonstrate the ability to use the scientific method.
- d. Obtain and interpret data, and communicate the results of inquiry.
- e. Demonstrate proper technique and safe practices.

B. Core Student Learning Outcomes: Core Student Learning Outcomes are transferable skills that students garner in a variety of educational settings and that have wide applicability across fields and in life.

i. Inquiry & Analysis

1) Select or Develop a Design Process

- a) Select or develop elements of the methodology or theoretical framework to solve problems in a given discipline.

2) Analyze and Interpret Evidence

- a) Examine evidence to identify patterns, differences, similarities, limitations, and/or implications related to the focus.
- b) Utilize multiple representations to interpret the data.

3) Draw Conclusions

- a) State a conclusion based on findings.

ii. Quantitative Literacy

4) Interpret Information

- a. Explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words).

5) Represent Information

- a. Convert information into and between various mathematical forms (e.g., equations, graphs, diagrams, tables, words).