General Course Information


Laboratory attendance: There will be no make-up labs, quizzes, exams, or practicals. If you cannot attend your assigned lab section (for a legitimate reason) during a given week, you may arrange to attend another lab section (to avoid receiving a “0” for that week's lab). To do this, you must ask permission of both your regular lab instructor and the instructor of the lab section you wish to attend. Lab times and contact information for all the TA’s are available on your lab Canvas under 'course content' and the icon labeled “BZ111 TA contact info.” Please do not abuse this privilege – this may be used for emergencies only (students are limited to attending a different section no more than twice). 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.

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.

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!

Grading Policy

Your laboratory grade will be based on weekly quizzes, 1 lab exam, 2 lab practicals, and 2 lab reports. The point break-down will be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points Breakdown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly quizzes</td>
<td>10 (highest of 11) @ 20 pts each = 200 pts</td>
</tr>
<tr>
<td>Exam</td>
<td>1 @30 pts = 30 pts</td>
</tr>
<tr>
<td>Practicals</td>
<td>2 @ 30 pts each = 60 pts</td>
</tr>
<tr>
<td>Lab Reports</td>
<td>1 @ 20 pts = 20 pts</td>
</tr>
<tr>
<td></td>
<td>1 @ 50 pts = 50 pts</td>
</tr>
<tr>
<td><strong>Total possible points:</strong></td>
<td><strong>360 pts</strong></td>
</tr>
</tbody>
</table>
The quizzes (worth 20 pts each) will include questions based on the material you covered the previous week (15 pts.), plus material you will be covering in the current week’s lab (3 pts.). Therefore, you should read and become familiar with the introductory material and laboratory exercises each week before coming to class. For lab topics Porifera/Cnidaria (week 7), Worms (week 8), and Mollusca (week 9), the quiz will not include 3 points of material from the current week’s lab. In its place, your TA will check as you are taking the quiz that the summary table at the end of these exercises has been filled out. This means you will need to read the exercise and fill in the table prior to your lab time. It is suggested that you do this in pencil so you can correct things as needed after the TA has taught the information. Two of the 20 quiz points will be based upon completion of the lab manual (note that during Exercise 5 there will be an additional assignment). Quizzes will be given at the beginning of the laboratory period. If you are late to class and miss the quiz, you will not be permitted to take it late or make it up at another time.

If you have attended every laboratory session, you may drop your lowest quiz score (not practicals). Your quiz, exam, or practical will not be graded if you do not complete all of the lab exercises including filling in your lab manual and/or cleaning up your work area at the end of the laboratory period. For quizzes, practicals, exams, and lab reports, you have ONE week after they are handed back to discuss your grade for points back. Once that week has passed, the grade will be frozen in the grade book.

There will be no extra credit given in this course.

If you are struggling in lab, it is strongly advised to attend your TA’s office hours or set up another appointment if those times do not work for you. If you do not understand something, get help as soon as possible.

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 2019-2020 at http://catalog.colostate.edu/general-catalog/policies/students-responsibilities/#academic-integrity

Information about your Laboratory Instructor

Name:
Phone Number:
E-mail Address:
Office Location:
Office Hours:

* If you have any general questions or concerns regarding the BZ111 Laboratory, you may contact the Laboratory Coordinator: Donna Weedman donna.weedman@colostate.edu (204 Yates; 970-491-4061). Please include your course name, section number, and lab instructor’s name in any emails or phone calls.
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.

COURSE OBJECTIVES:
Upon successful completion of this course students will be able to

**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.

**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).

6. **Properly apply the scientific method** to investigate scientific questions, and to communicate their results to others;

7. **demonstrate the proper and safe use of basic biological/scientific equipment** (e.g., microscopes, dissection tools, etc.)

8. **demonstrate knowledge of fundamental biological concepts and processes**;

9. **demonstrate (with hands-on lab experience) knowledge of major animal phyla**, including the structure & function of organ systems in both invertebrates and vertebrates.
<table>
<thead>
<tr>
<th>Week #/ Date</th>
<th>Topic</th>
<th>Exercise in Lab Manual</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: 1/21-1/23</td>
<td>Scientific Method and Experimental Design</td>
<td>Ex. 1</td>
</tr>
</tbody>
</table>
| 2: 1/28-1/30 | Quiz 1  
Human Cardiopulmonary Physiology                              | Ex. 2                  |
| 3: 2/4-2/6   | Quiz 2  
Lab Report Title, Intro, Materials/Methods with citations due to Turnitin/Canvas  
Mitosis and Meiosis                                                | Ex. 3                  |
| 4: 2/11-2/13 | Quiz 3  
Mendelian Genetics                                                   | Ex. 4                  |
| 5: 2/18-2/20 | Quiz 4 + Assignment  
Population Genetics                                                      | Ex. 5                  |
| 6: 2/25-2/27 | Exam 1  
Use of the Microscope: Cells and Protists                            | Ex. 6                  |
| 7: 3/3-3/5   | Quiz 5  
Lab Report Results and Discussion with citations due to Turnitin/Canvas  
Porifera and Cnidaria                                                | Ex. 7                  |
| 8: 3/10-3/12 | Quiz 6  
Platyhelminthes, Nematoda, Annelida                                  | Ex. 8                  |
| 9: 3/17-3/19 | NO LABS – Spring Break                                                |                        |
| 10: 3/24-3/26| Quiz 7  
Mollusca                                                            | Ex. 9                  |
| 11: 3/31-4/2 | Quiz 8  
Complete Revised Lab Report due to Turnitin/Canvas  
Arthropoda                                                        | Ex. 10                 |
| 12: 4/7-4/9  | Lab Practical 1  
Echinodermata                                                         | Ex. 11                 |
| 13: 4/14-4/16| Quiz 9  
Chordata                                                            | Ex. 12                 |
| 14: 4/21-4/23| Quiz 10  
Vertebrate Behavior and Diversity  
Fetal Pig Dissection                                                  | Ex. 13, Ex. 14         |
| 15: 4/28-4/30| Quiz 11  
Isle Royale                                                          | Ex. 15                 |
| 16: 5/5-5/7  | Lab Practical 2                                                       |                        |