Welcome to the LIFE102 laboratory! This part of the course is intended to provide you with hands-on experience that will complement the lecture portion of the course. We hope you will enjoy your laboratory experience.


Laboratory attendance is mandatory. Lab exercises are designed to help you better understand lecture topics, so it is essential that you come to lab and participate. If you cannot attend your assigned lab section during a given week, you may arrange to attend another lab section that same week 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. If at all possible, don’t wait till the last lab on Thursday – these TA’s frequently have to turn ‘extra’ people away who missed lab earlier in the week. Lab times and contact information for all the TA’s are available on your lab RamCT under the icon labeled “Life102 TA contact info.” Please do not abuse this privilege—**all lab sections are FULL**. Because lab is so important to your complete understanding of LIFE102, **missing more than two laboratory sessions** during the semester will result in a 0% for the laboratory portion of the course. The laboratory portion of the course accounts for 25% of your total course grade.

You are responsible for cleaning up your work area and returning supplies to their appropriate location. You should complete the following items before leaving the laboratory:

1. All glassware should be washed and returned to the appropriate location.
2. All used slides should be washed, dried, and returned to the appropriate box.
3. Your bench top (work area) should be wiped down with paper towels and the cleaning solution provided.
4. Any trash you generate should be disposed of properly (in the trash receptacle, glass waste container, or hazardous waste container provided).

**NO FOOD OR DRINK PERMITTED IN LAB!**
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, one lab report, and one oral / poster presentation. The point break-down is as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly quizzes</td>
<td>10 (highest of 12) @ 20 pts each = 200pts</td>
</tr>
<tr>
<td>Lab Report</td>
<td>1 @ 30 pts = 30pts</td>
</tr>
<tr>
<td>Poster / Oral Presentation</td>
<td>1 @ 25 pts = 25pts</td>
</tr>
<tr>
<td><strong>Total possible points</strong></td>
<td><strong>255</strong></td>
</tr>
</tbody>
</table>
Note: The dates of lab quizzes, as well as the due dates for the lab report and oral / poster presentation, are indicated on the attached laboratory schedule. There will be no make-up labs or quizzes.

The quizzes (worth 20 pts each) will include questions relevant to the material you covered the previous week (16-17 pts.), plus material you will be covering in the current week’s lab (3 - 4 pts.). Therefore, you should read and become familiar with the introductory material and laboratory exercises each week before coming to class. Quizzes will be given at the beginning of the laboratory period (quiz dates are noted on the attached laboratory schedule). 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. Quizzes are not just memorization and regurgitation – you should work to understand the ‘why’ of the procedures you perform in lab. At every step, ask yourself why you are performing that step, why you received the results you did, and what would happen to the results if you performed a step differently.

At semester’s end, your lab grade will be calculated from your poster presentation, lab report, and your 10 highest weekly quizzes. Absences result in a weekly score of 0 points.

Note: Your weekly quiz will not be graded if you do not complete all of the lab exercises including filling in your lab manual, and clean up your work area at the end of the laboratory period.

There will be absolutely NO extra credit given in this course.

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 2014-2015 at http://catalog.colostate.edu/content/files/2012/FrontPDF/1.6POLICIES.pdf

Important 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 LIFE 102 Laboratory, you may contact Donna Weedman, Laboratory Coordinator:
   204 Yates   491-4061   dweedman@lamar.colostate.edu
   (include your name, course number, lab section number, and lab instructor’s name in emails or phone messages)
<table>
<thead>
<tr>
<th>Week #/ Date</th>
<th>Topic</th>
<th>Exercises in Lab Manual</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: 8/25-8/28</td>
<td>Introduction/Cell Structure and Organization</td>
<td>Ex. 1</td>
</tr>
<tr>
<td>2: 9/1-9/4</td>
<td><strong>NO LABS due to Labor Day</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 3: 9/8-9/11 | Quiz 1  
Scientific Method | Ex. 2 |
| 4: 9/15-9/18 | Quiz 2  
Diffusion and Osmosis | Ex. 3 |
| 5: 9/22-9/25 | Quiz 3  
Enzyme Activity and Specificity | Ex. 4 |
| 6: 9/29-10/2 | Quiz 4  
Cellular Respiration and Fermentation | Ex. 5 |
| 7: 10/6-10/9 | Quiz 5  
Photosynthesis | Ex. 6 |
| 8: 10/13-10/16 | Quiz 6  
Mitosis and Meiosis | Ex. 7 |
| 9: 10/20-10/23 | Quiz 7  
Genetics: Mendelian Inheritance | Ex. 8 |
| 10: 10/27-10/30 | Quiz 8  
Human Genetics  
**Oral / Poster Presentation Due!** | Ex. 9 |
| 11: 11/3-11/6 | Quiz 9  
Molecular Biology I (Genetic Transformation) | Ex. 10 |
| 12: 11/10-11/13 | Quiz 10  
**Lab Report: Title, Intro, Materials/Methods with citations due to TA**  
Molecular Biology II (Restriction Analysis) | Ex. 11 |
| 13: 11/17-11/20 | Quiz 11  
Genetically Modified Organisms | Ex. 12 |
| 14: 11/24-11/27 | **NO LABS – Fall break** | |
| 15: 12/1-12/4 | **LAB REPORT DUE TO SAFEASSIGN!**  
Population Genetics + Electrophoresis | Ex. 13 |
| 16: 12/8-12/11 | Quiz 12  
(note: quiz covers exercises 12,13,14)  
Evolution | Ex. 14 |